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**Liste Tarifaire des produits Développeur APPLE IIGS
AU 1er OCTOBRE 1989**

CONDITIONS GENERALES :

Pour nous commander :

Il vous faut joindre à votre courrier de commande le règlement par
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Nous assurons la vente uniquement et directement aux Développeurs sur
Apple II ou Macintosh et de ce fait n'accordons aucune remise
concessionnaire.

Les Prix indiqués sont TTC, port inclus, sauf pour l'Etranger.

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Les réclamations ne sont admises que dans un délai de 8 jours suivant la
réception des produits.

APPLE II

*This section includes products for the Apple IIe, IIc, or products that are generic to the entire Apple II product line.
For Apple IIgs specific products, see the Apple IIgs catalog section listings.*

Apple II System Disk v. 3.1

Apple Computer, Inc.

CLASS 1

This is the latest version of ProDOS 8, the system software for 8-bit Apple II computers. This product is fully compatible with the AppleShare File Server. Included in this package are release notes detailing changes in ProDOS since v. 1.1. Designed for developers, this package does not contain end-user documentation, which is available at authorized Apple dealers.

Note: Before you can ship products that use Apple II System Disk v. 3.1 you must obtain a license from:

Apple Computer Software Licensing
20525 Mariani Ave., M/S 38-I
Cupertino, CA 95014

- System requirements: An Apple IIc or an Apple IIe with 128K RAM, or an Apple IIgs computer.
- Contains one 3.5-inch, double-sided ProDOS disk, one 5.25-inch, single-sided ProDOS disk, and one 24-page manual.

A2Z1004

200,00 FF

Apple II Desktop Toolkit Pascal v. 1.0B5

Apple Computer, Inc.

CLASS 3

This is a library of routines that supports MouseText and/or double Hi-Res graphics for the Apple II family of computers. The library also manages the desktop environment, which includes pull-down menus, windows, cursors, and event handling. The MouseText Toolkit manual and disks manage these activities in text mode. The Mouse Graphics Toolkit manual and disks provide equivalent functions in graphics mode. This package includes graphics primitives. Apple II Desktop Toolkit is intended for personal enjoyment only and should not be used to develop commercial software. It has not been upgraded or revised and does not take advantage of new features in system software releases, ROM revisions, or computer model changes.

Note: Before you can ship products that use Apple II Desktop Toolkit Pascal v. 1.0B5 you must obtain a license from:

Apple Computer Software Licensing
20525 Mariani Ave., M/S 38-I
Cupertino, CA 95014

- System requirements: An Apple IIc or an Apple IIe with 128K RAM, or an Apple IIgs computer.
- Contains four 5.25-inch Apple II disks and one 336-page manual.

A2Z2009

320,00

Apple II Desktop Toolkit ProDOS v. 1.0B5

Apple Computer, Inc.

CLASS 3

This is a library of routines that supports MouseText and/or double Hi-Res graphics for the Apple II computer family. The library also

manages the desktop environment, which includes pull-down menus, windows, cursors, and event handling. The MouseText Toolkit manual and disks manage these activities in text mode. The Mouse Graphics Toolkit manual and disks provide equivalent functions in graphics mode. This package includes graphics primitives.

Note: Before you can ship products that use Apple II Desktop Toolkit ProDOS v. 1.0B5 you must obtain a license from:

Apple Computer Software Licensing
20525 Mariani Ave., M/S 38-I
Cupertino, CA 95014

- System requirements: An Apple IIc or an Apple IIe computer with 128K RAM, or an Apple IIgs computer.
- Contains four 5.25-inch Apple II disks and one 336-page manual.

A2Z2010

320,00

Apple II Filecard Toolkit

Apple Computer, Inc.

CLASS 3

This prototype package contains a variety of user interface utilities for the Apple II program developer. Included is the Pascal Filecard Menu Support Unit, which is a simple AppleWorks-like interface written in Pascal for screen management and menu selections.

The second utility is the Apple II Console and Keyboard Tools. This is an adaption of the Apple III Console Driver for the Apple IIc and Apple IIe. The utility permits developers to use a consistent interface for display and control procedures. The driver can be carried out in Pascal, Applesoft, and Assembler. The package has release notes 1.0B1 for the console drivers and ConsoleStuff Library external reference specifications.

Apple II Filecard Toolkit is intended for personal enjoyment only and should not be used to develop commercial software. It has not been upgraded or revised and does not take advantage of new features in system software releases, ROM revisions, or computer model changes.

Note: Before you can ship products that use Apple II Filecard Toolkit you must obtain a license from:

Apple Computer Software Licensing
20525 Mariani Ave., M/S 38-I
Cupertino, CA 95014

- System requirements: An Apple IIc, Apple IIe, or Apple IIgs computer.
- Contains five 5.25-inch Apple II disks and 100 pages of engineering release notes.

A2Z2011

400,00

Apple II Pascal v. 1.3

Apple Computer, Inc.

CLASS 3

This is Apple Computer's implementation of the University of California, San Diego (UCSD) p-system for the Apple II computer

family, providing a complete development and operating environment supporting the Pascal language. The package includes a Pascal compiler, linker, filer (file management utility), editor, a 6502 assembler, p-code interpreter, and sample programs. The compiler generates p-code files executed by the interpreter.

Apple II Pascal v. 1.3 is intended for personal enjoyment only and should not be used to develop commercial software. It has not been upgraded or revised and does not take advantage of new features in system software releases, ROM revisions, or computer model changes.

Note: Before you can ship products that use Apple II Pascal v. 1.3 you must obtain a license from:

Apple Computer Software Licensing
20525 Mariani Ave., M/S 38-I
Cupertino, CA 95014

- System requirements: The package supplies different versions of the interpreter for 64K systems (Apple IIs and Apple II+s), 128K Apple IIe's, and Apple IIc's. The program is compatible with the Apple IIgs computer. Apple Pascal calls for two 5.25-inch disk drives, or one 3.5-inch drive plus 64K of RAM.
- Contains four 5.25-inch Apple II disks, one 3.5-inch Apple II disk, and one 400-page manual.

A2Z2012

1500, 00FF

Apple II Pascal v. 1.3 Device Support Tools

Apple Computer, Inc.

CLASS 3

These tools provide support for writing and attaching device drivers for use with the Pascal v. 1.3 operating system. A system.attach file allows the drivers that were written for v. 1.2 to work correctly with v. 1.3.

Apple II Pascal v. 1.3 Device Support Tools are intended for personal enjoyment only and should not be used to develop commercial software. The package has not been upgraded or revised and does not take advantage of new features in system software releases, ROM revisions, or computer model changes.

- System requirements: Apple II Pascal v. 1.3.
- Contains one 5.25-inch Apple II disk and one 104-page manual.

A2Z2013

350, 00

Apple II SuperPILOT plus Apple II SuperPILOT Special Edition v. 1.0

Apple Computer, Inc.

CLASS 3

SuperPILOT is a complete system for experimenting with and designing programs in the PILOT programming language. Apple II SuperPILOT is the original version of SuperPILOT and is fully documented. Included in this bundle is Apple II SuperPILOT Special Edition v. 1.0. The incorporated Special Edition document describes the differences between this edition and SuperPILOT.

Apple II SuperPILOT and Apple II SuperPILOT Special Edition v. 1.0 are intended for personal enjoyment only and should not be used to develop commercial software. These products have not been upgraded or revised and do not take advantage of new features in system software releases, ROM revisions, or computer model changes.

Note: Before you can ship products that use Apple II SuperPILOT or Apple II SuperPILOT Special Edition v. 1.0 you must obtain a license from:

Apple Computer Software Licensing
20525 Mariani Ave., M/S 38-I
Cupertino, CA 95014

- Contains 11 disks, two manuals, and release notes.

A0014LL/A

750, 00FF

Apple II Video Overlay Card Development Kit v. 1.1

Apple Computer, Inc.

CLASS 1

This kit provides basic design information about the Apple II Video Overlay Card. The notes include information on how the Apple II Video Overlay Card works with application programs. It also has descriptions of the Video I/O Interface Tool Set routines for controlling the operation of the Apple II Video Overlay Card. Also included in the notes is an overview of the Apple II Video Expansion Bus (AVEB) architecture and a description of relevant new features incorporated into the Apple IIgs VideoMix desk accessory and the Apple IIe Video Setup program.

The disk includes interfaces for the APW and MPW IIgs development systems and an object file for IIe programmers. The disk also includes Tool 33 (the Video Overlay Card tool), the VideoMix desk accessory (for the Apple IIgs), and the Apple IIe Video Setup program.

Note: Before you can ship products that include the VideoMix desk accessory or the Apple IIe Video Setup program, you must get a license from:

Apple Computer Software Licensing
20525 Mariani Ave., M/S 38-I
Cupertino, CA 95014

- System requirements: An Apple IIe or Apple IIgs with the Apple II Video Overlay Card.

- Contains one disk and one 96-page manual.

A0221LL/B

280, 00

ProDOS 8 Assembly Tools

Apple Computer, Inc.

CLASS 1

These up-to-date ProDOS 8 Assembly Tools enable programmers to write assembly language programs for Apple II computers. The tools include an editor, assembler, Bugbyter debugger, and relocating loader. These tools help programmers create, debug, and execute assembler programs for any Apple II family computer.

- System requirements: An Apple II with at least 64K of RAM. The ProDOS 8 Technical Reference Manual and ProDOS Utilities Manual are recommended.
 - Contains one 5.25-inch Apple II disk and one 270-page manual.
- A2Z2021 *520,00 FF*

Assembly

Also see the following products in the Apple IIgs section:

APW Assembler

ORCA/M 1.1

Micol Macro for the Apple IIe and Apple IIc

Micol Systems

Micol Macro for the Apple IIe and the Apple IIc is a fully integrated macro assembler package. It consists of a menu, a line editor, a macro assembler, and a machine language monitor with step and trace for easy debugging. The ML monitor also has the ability to relocate machine language files within memory.

Micol Macro has full macro capabilities, which means macros can accept and expand parameters.

- System requirements: An Apple II+, IIe, or IIc computer with one 5.25-inch disk drive. The minimum memory requirement is only 48K for the DOS 3.3 version.
- Contains one 5.25-inch disk and one 90-page manual.

T0345LL/A

560,00 FF

MicroDot

Kitchen Sink Software, Inc.

MicroDot is the logical replacement for BASIC.SYSTEM. MicroDot occupies only about 2.5K of RAM. This means you gain an extra 7K to 8K of program and variable space when using Applesoft BASIC. MicroDot uses the ampersand (&) command to access ProDOS, but it still allows you to use other ampersand routines in your programs. Extra memory is saved because MicroDot uses a much shorter syntax than BASIC.SYSTEM. All files use the same structure as BASIC.SYSTEM. Inexpensive publishers' licenses are available.

MicroDot can do anything that BASIC.SYSTEM can do. In addition, MicroDot has a module that allows packing and unpacking of Hi-Res screens directly to and from disk—no RAM buffer required. Other utility programs on the disk include 5.25-inch and 3.5-inch disk formatters, a patch so you can use Program Writer, SoftWorks (an ampersand-driven machine program that works just like the AppleWorks menu and prompt displays), and much more.

This disk contains many example programs that show how to take full advantage of ProDOS via MicroDot. One of these programs shows how to copy programs of any type from disk to disk. Two examples of new control over ProDOS are illustrated with the &.BO command, which does automatic BASIC overlays to any line number

OR memory address and the &.G command, which loads directory file names, types, and auxtype bytes directly into your arrays. It is fast and is done in a simple loop just a few bytes long.

- System requirements: An Apple II family computer with any version of ProDOS 8.
- Contains one 5.25-inch disk, one 60-page manual, and a quick-reference sheet.

T0290LL/A

220,00 FF

MON+ Symbolic Debugger

Byte Works, Inc.

MON+ supports 40 commands for debugging ORCA/M 4.1 assembly language programs, traces programs step by step, or lets particular subroutines run at full speed. A disassembler examines the program while it is being debugged. MON+ also assigns names to locations when debugging a programmer, so programmers can use the same symbolic names that were used when the program was written. When an error is found, it can often be fixed from MON+ using either the hex numbers (as with the Apple monitor) or with a built-in mini-assembler.

- System requirements: ORCA/M 4.1 and an Apple II+, Apple IIe, or Apple IIc computer.

T0017LL/A

220,00 FF

ORCA/M 4.1

Byte Works, Inc.

ORCA/M 4.1 is a development environment for 6502, 65C02, and 65816 assembly language programming under the ProDOS 8 operating system. The assembler supports real subroutines and data segments with true local and global labels.

The text editor offers cut, copy, and paste as well as global search and replace. The macro language calls libraries, pass parameters, defines local and global parameters, and calls other macros. The subroutine libraries include 2-, 4-, and 8-byte integer mathematics and full graphics libraries, including double Hi-Res.

The package includes a linker (which performs automatic library searches), a command processor, a disassembler, and numerous utilities. Programs written with ORCA/M can be easily modified to run with ORCA/M 1.1 on the Apple IIgs.

- System requirements: An Apple II+, Apple IIe, or Apple IIc computer with 64K of memory.

T0018LL/A

880,00 FF

ORCA/M 4.1 Floating Point Libraries

Byte Works, Inc.

These libraries provide an alternative to SANE floating point number crunching with ORCA/M 4.1. The large array of floating point operations supported include add, subtract, multiply, divide, sine, cosine, arctangent, natural log and exponent, formatted input and output, square root, absolute value, sign function, and conversion

between floating point and integer numbers; all in IEEE floating point format and with SANE accuracy. Also included is complete source code for these floating point libraries.

- System requirements: An Apple IIe, Apple IIc, or Apple II+ computer.

T0020LL/A

360,00 FF

ORCA/M 4.1 O/S Source

Byte Works, Inc.

ORCA O/S Source is a set of four disks containing source code for key parts of the ORCA/M system which includes source listings for the operating system, subroutine libraries, and the XREF utility. Drivers can be added for hardware that are not currently supported by ORCA, such as configuring clock cards for slots other than #2. ORCA can be set up to automatically load these drivers. The source code provides users with the opportunity to explore the inner workings of the ORCA/M operating system. The code simplifies debugging of your programs by providing programmers with more information on the subroutine libraries.

- System requirements: An Apple IIe, Apple IIc, or Apple II+ computer.

T0019LL/A

360,00 FF

BASIC

Micol Advanced BASIC for the Apple IIe and Apple IIc

Micol Systems

Micol Advanced BASIC for the Apple IIe and the Apple IIc, like its sister product for the Apple IIcs, is a fully integrated, structured, compiled language system. It is designed specifically to take advantage of the full power of the Apple IIe and Apple IIc.

Micol Advanced BASIC consists of an 80-column, full-screen text editor, a programming shell, a compiler, a linker, and run-time library. It has the ability to do double high resolution as well as double low resolution graphics. To allow maximum program size, it makes use of both memory banks. In addition, it has the unique ability to link in the user's own machine language files directly into a BASIC program, as long as a few simple rules are followed.

- System requirements: An Apple IIe or Apple IIc, one 5.25-inch disk drive, and a monitor capable of 80-column display.
- Contains one 5.25-inch disk and one 225-page manual.

T0283LL/A

720,00 FF

Merlin 8/16 Plus

Roger Wagner Publications

Merlin is an assembler for the entire Apple II family. With features like macros, macro libraries, nested macros, conditional assembly, assemble to memory or disk, linked files, dummy program segments, XREF utilities, and more, Merlin 8/16 includes four separate assemblers: Merlin 8 (DOS v. 3.3 and ProDOS) for use on standard Apple IIe or IIc computers; Merlin 16 (ProDOS 8) for the Apple IIcs but also usable on an Apple IIe or IIc computer with a 65802 or 65816 microprocessor installed; and Merlin 16+ (GS/OS), a GS-specific version.

Merlin 8/16 includes a powerful Full Screen Editor, a Relocating Linker to generate relocatable object code for both ProDOS 8 and 16, the use of Local Labels, and a GS Macro Library. The Merlin 16 linker also supports batch processing and a powerful command file to automate assemblies. Merlin 8/16 supports and assembles all 6502, 65C02, 65802, and 65816 opcodes. The product includes an APW/ORCA-to-Merlin source code conversion utility. Merlin 8/16 also includes SOURCEROR, an easy-to-use disassembler that creates Merlin 8/16 source files from binary programs, and SOURCEROR.FP, which produces a fully labeled and commented source listing of Applesoft BASIC.

Many sample files of working Apple II programs such as ProDOS 16 system files and desk accessories are also included. Merlin 8/16 is unlocked, copyable, and hard disk compatible. Merlin 8 is equivalent to the earlier RWP product, Merlin Pro.

T0002LL/B

830,00 FF

C

ORCA/M 4.1 Small-C Compiler

Byte Works, Inc.

Small-C is a subset of C. It offers a learning environment for compilers with a complete source code included as well as a subroutine-by-subroutine description of the compiler in the manual.

All full C language statements are supported by ORCA/M 4.1 Small-C Compiler, in addition to most operators plus short and long integers. Small-C supports p-code for space efficiency and native code for speed. A peep-hole optimizer is included, which demonstrates one of the most important code optimization techniques in a modern compiler.

Small-C is fully integrated into the ORCA/M environment. It supports libraries and partial compiles.

- System requirements: ORCA/M 4.1 and an Apple II+, Apple IIe, or Apple IIc computer

T0021LL/A

360,00 FF

Books and References

X-REF (Cross-Reference) of Apple II Books and Notes

Apple Computer, Inc.

CLASS 1

X-REF (Cross Reference) of Apple II Books and Notes is the key to all the programming books for Apple II family computers and to the Technical Notes from the Apple II Developer Technical Support team. The X-REF contains complete indexes to all the books as well as a compiled glossary of terms. It is a valuable guide to Apple Computer's official programmer's references for the entire family of Apple II computers.

- Contains 100 pages.

A0021LL/A

180,00 FF

1985-1988 Apple II Technical Notes

Apple Computer, Inc.

CLASS 1

Apple II Technical Notes covers all Apple II machines. Apple Computer Developer Technical Support completely revised and updated all Apple II technical notes at the end of 1988, creating this complete set.

- Contains 500 pages.

A0010LL/A

500,00 FF

1985-1988 Apple II Technical Notes Disk Version

Apple Computer, Inc.

CLASS 1

Technical Notes covers all Apple II machines. Developer Technical Support completely revised and updated all technical notes at the end of 1988, creating a complete set of Apple II Technical Notes. The disk version is supplied on Apple II ProDOS disks in text file format.

- Contains two Apple II 3.5-inch disks and 60 pages.

A0020LL/A

200,00 FF

1989 Apple II Technical Notes

Apple Computer, Inc.—1989

CLASS 1

The 1989 *Apple II Technical Notes* are sent out as released to purchasers of this subscription. These notes cover all Apple II machines.

A0022LL/A

140,00 FF

1989 Apple II Technical Notes Disk Version

Apple Computer, Inc.—1989

CLASS 1

The 1989 *Apple II Technical Notes* are sent out bimonthly by UPS Ground to purchasers of this subscription. Apple II Technical Notes covers all Apple II machines. The disk version is supplied on Apple II ProDOS disks in text file format.

A0023LL/A

140,00 FF

Apple IIe Technical Reference Manual

Addison-Wesley Publishing Company—1987

by Apple Computer, Inc.

This guide for Apple programmers provides detailed descriptions of all the Apple IIe's hardware and firmware. It offers information on I/O features such as MouseText, memory organization, and the use of the monitor firmware. This manual has been revised to cover the 128K Apple IIe with extended keyboard.

- Contains 408 pages.

A2G0053

220,00 FF

Apple II Memory Expansion Card Reference Manual

Apple Computer, Inc.

CLASS 1B

This beta manual provides a technical description of the Apple II Memory Expansion Card. The card can add as much as 1 MB of RAM (in 256K increments) to any Apple II computer. The manual is written for professional programmers and technical enthusiasts who want their application programs to take advantage of the expanded memory features of the card. This manual will be reclassified to Class 1 when completed.

- Contains 75 pages.

A2G0022

140,00

Apple IIc Memory Expansion Card Reference Manual

Apple Computer, Inc.

CLASS 1B

This beta reference contains technical data dealing with the Apple IIc Memory Expansion Card product. It is written for technical enthusiasts who wish to access the card's expanded memory features. This manual will be reclassified to Class 1 when completed.

- Contains 78 pages.

A2G0047

140,00

Apple II SCSI Card Technical Reference Manual

Apple Computer, Inc.—1987

CLASS 1 B

This beta guide to the Apple II SCSI Card provides a functional overview of card hardware and firmware features and operation. The manual is written for programmers, peripheral device designers, and computer enthusiasts who want to know what makes the card work and how to use it. The manual includes detailed descriptions of the Smartport command set plus step-by-step instructions on using non-Smartport SCSI commands. Included is information on the latest Revision C ROM, which provides support for the AppleCD SC CD-ROM drive. This reference manual will be reclassified to Class 1 when completed.

- Contains 70 pages.

A2G0029

160,00 FF

Apple IIc Technical Reference Manual Second Edition

Apple Computer, Inc.—1989

CLASS 1

This is the definitive reference guide to all members of the Apple IIc family of computers, including the new Apple IIc Plus. It presents essential information on hardware, memory organization, I/O capabilities, and interrupt handling. It also describes the Apple IIc Plus microprocessor caching techniques. However, if you're developing software that is to run on all Apple IIc models, purchase this reference instead of the original edition published by Addison-Wesley.

- Contains 685 pages.

A2G0052/A

220,00 FF

Apple IIc Technical Reference Manual

Addison-Wesley Publishing Company—1987

by Apple Computer, Inc.

This manual covers all models of the Apple IIc except the Apple IIc Plus. It presents essential information on hardware, memory organization, I/O capabilities, and interrupt handling. We recommend this book to users of earlier Apple IIc systems who want to know more about their systems. However, if you're developing software that is to run on all Apple IIc models, purchase the second edition instead.

- Contains 576 pages

A2G0052

220,00 FF

Applesoft BASIC Programmer's Reference Manual

Addison-Wesley Publishing Company—1985

by Apple Computer, Inc.

This complete reference details all the features of Applesoft BASIC and explains advanced concepts in program design. Topics covered

include how to create high-resolution graphics, memory organization, and information on peeks, pokes, and calls

- Contains 368 pages.

A2Z2022

230,00 FF

Applesoft Tutorial

Addison-Wesley Publishing Company—1985

by Apple Computer, Inc.

This classic introduction teaches Applesoft BASIC fundamentals with concise explanations and hands-on exercises. The Sampler disk provides program examples of games and programming tools

- Contains one Apple II 5.25-inch disk and 304 pages.

A2Z2023

300,00 FF

BASIC Programming with ProDOS

Addison-Wesley Publishing Company—1985

by Apple Computer, Inc.

With this book, BASIC programmers can learn to use ProDOS commands in their programs. Specific topics include sequential and random accessing, binary programs, and files. An example disk contains ProDOS 8 sample programs.

- Contains one Apple II 5.25-inch disk and one 296-page manual.

A7Z0015

300,00 FF

ProDOS 8 Technical Reference Manual

Addison-Wesley Publishing Company—1985

by Apple Computer, Inc.

ProDOS 8 is the standard operating system for the Apple II family of computers. Written for assembly language programmers, this manual provides detailed documentation of ProDOS 8 programming features including: memory management, operating system calls, and file structure. An exerciser disk allows readers to practice ProDOS 8 calls before actually writing application programs.

- Contains one Apple II 5.25-inch disk and 208 pages.

A7G0029

280,00 FF

DOS 3.3 Programmer's Manual

Apple Computer, Inc.—1982

CLASS 3

APDA has the only remaining copies of the discontinued DOS 3.3 Programmer's Manual. These remain valuable for history buffs, educators, or hackers who still use DOS 3.3 software. The manual describes the DOS environment, text files, programming DOS commands in Applesoft, and more. The manual covers the Apple II, Apple II+, and Apple IIe computers.

DOS 3.3 Programmer's Manual is intended for personal enjoyment only and should not be used to develop commercial software. It has not been upgraded or revised and does not take advantage of new features in system software releases, ROM revisions, or computer model changes.

- Contains 216 pages.

A2G0066

220,00 FF

DOS 3.3 User's Manual

Apple Computer, Inc.—1983

CLASS 3

This information, also discontinued, is far less detailed than the programmer's manual described in the previous listing. It contains a tutorial and covers the basics of how DOS operates. This manual contains information on how to use disks, files, and programs. It addresses the Apple II, Apple II+, and Apple IIe computer.

DOS 3.3 User's Manual is intended for personal enjoyment only and should not be used to develop commercial software. It has not been upgraded or revised and does not take advantage of new features in system software releases, ROM revisions, or computer model changes.

- Contains 174 pages.

A2G0050

220,00 FF

Instant Pascal Language Reference

Addison-Wesley Publishing Company—1985

by Apple Computer, Inc.

The only official reference to Instant Pascal, this book offers an overview as well as detailed information on every major feature of the language and system.

A7G0028

200,00 FF

Assembly Lines: The Book, Volume I

Roger Wagner Publishing—1984

by Roger Wagner

This book is designed for the novice using assembly language. It starts with fundamentals and works up to more sophisticated routines. It gives a clear understanding of all 6502 instructions, disk access, reading and writing lines, sound generations, basic math, keyboard and screen techniques, and more. The book also offers an extensive reference section describing all 6502 assembly language commands with examples of the most common usage of each. The information is compatible with all Apple assemblers including Merlin, Merlin Pro, and Merlin 8/16.

T0238LL/A

200,00 FF

Apple Product Classifications

CLASS 1: The products in this category consist of final versions of key technical references and development tools which have been fully documented and tested by Apple Computer. The technical references are definitive works which all programmers will use for developing applications.

CLASS 1 B: The products in this category consist of beta (pre-final) versions of products that will be reclassified as Class 1 products once their development cycle is completed.

CLASS 2: The products in this category may not be fully tested and the documentation may be in preliminary draft form. Some of the products in this category are new offerings that are so useful that Apple Computer has decided to make them available early in their development cycle. Other products may not be vital to a software development project but are interesting and useful nonetheless.

CLASS 3: This category consists of products that have been developed by Apple Computer for the purpose of prototyping interesting development environments or for quickly solving specific problems. Other products were actually final products at one time but have not been revised or upgraded since, nor are they expected to be upgraded. The latter software products do not take advantage of new features in recent system software releases or in ROM revisions and may not work perfectly with newer system software releases or computer models. Apple Computer does not recommend that you use Class 3 products for developing commercial software—they are intended for your personal enjoyment only.

APPLE IIgs

This section includes products for Apple IIgs specific products. For Apple II, IIe, IIfx, or products that are generic to the entire Apple II product line, see the Apple II catalog section listings.

APW: Apple IIgs Programmer's Workshop v. 1.0.2

Apple Computer, Inc.

CLASS 1

This is Apple Computer's native development system for the Apple IIgs. As a complete development system, it includes a command shell, linker, utilities, and a complete 65816 macro assembler. This system is the host for other APW language products such as APW C and several third-party language products.

The command shell performs functions such as file management, directory listing, I/O redirection, and pipelining. The shell environment also provides utility programs with useful extensions to ProDOS 16. The full-screen text editor copies, moves, and deletes blocks; searches and replaces; and executes editor command macros.

The assembler produces 65816 programs that assemble into relocatable object modules. Utility macros are provided to aid programming, as are tool interface macros. You may also create your own macros and library files. Taking files created by the assembler, C, or other compatible languages, the linker resolves external references and generates load files (which include relocation dictionaries).

Various utility programs round out the package: "crunch" to combine object files into a single file; DumpObj; disk initialization; macro file generation; ProDOS 8 binary file creation; file search; directory/file compare; canonical spelling; library creation; and revised, up-to-date tool interfaces.

Version 1.0.2 contains new M16 and E16 interface files to provide call macros and equates for all tools on the Apple IIgs System Disk v. 4.0.

- System requirements: An Apple IIgs computer with at least 1.25 MB of RAM, two 3.5-inch drives, or one 3.5-inch disk drive and a hard disk.
- Contains two 3.5-inch Apple II disks and one 600-page manual.

Volume purchase discount available. A binder is included.

A0001LL/B

900,00 FF

APW C: Apple IIgs Programmer's Workshop C v. 1.0.2

Apple Computer, Inc.

CLASS 1

The most recent C compiler for the Apple IIgs Programmer's Workshop from Apple Computer, this compiler offers full Kernighan and Ritchie implementation of the C language. The compiler generates APW object files. Extensions include void and enumerated types as well as structure passing. The product supports source-level segmentation of load files.

APW C includes standard C I/O library interfaces and Apple IIgs tool interfaces. Version 1.0.2 contains header files for the GS/OS operating system as well as corrected and updated interfaces for all tools on the Apple IIgs System Disk v. 4.0.

- System requirements: APW v. 1.0 or later version. This compiler does not work with earlier versions of APW. The package requires a minimum of 1.25 MB of RAM, two 3.5-inch disk drives, or one 3.5-inch disk drive and a hard disk. A hard disk is highly recommended.
- Contains one 3.5-inch Apple II disk and a 300-page manual. Volume discount available. A binder is included.

A0003LL/B

700,00 FF

APW C: Apple IIgs Programmer's Workshop C Bundle v. 1.0.2

Apple Computer, Inc.

CLASS 1

Developers can purchase an entire APW development package for a reduced price with this bundled offering. The APW C Bundle includes:

- APW Development Environment v. 1.0.2
- APW C v. 1.0.2
- GSBug and Debugging Tools v. 4.0B1
- System requirements: An Apple IIgs computer with at least 1.25 MB of RAM (motherboard memory plus 1 MB of expansion RAM), two 3.5-inch disk drives, or one 3.5-inch disk drive and a hard disk. Two binders are included.

A0048LL/B

1600,00 FF

Programming Tools & Interfaces for APW v. 1.1

Apple Computer, Inc.

CLASS 2

This product contains the APW tools that are essential to accessing the new features of Apple IIgs System Disk v. 5.0, revisions to several existing APW tools, and interfaces for both APW C and Assembly. The interfaces are current through Apple IIgs System Disk v. 5.0. The new tools in this package are a resource compiler (Rez), a resource decompiler (DeRez), a new scriptable linker (LinkIIgs), and a utility to convert existing applications into ExpressLoader-compatible applications (Express). Revised tools included with this product are the library creation utility (MakeLib), a binary file converter (MakeBin), and an OMF display utility (DumpObj). With the exception of Express, all tools are ports of their MPW IIgs counterparts.

These tools will be part of APW v. 2.0 when that product is available in 1990. The documentation included with this product are appropriate chapters or sections from the working draft of the APW v. 2.0 manual.

- System requirements: Apple IIgs System Disk v. 5.0 or later version and APW v. 1.0 or later version.
- Contains three 3.5-inch disks, one 148-page manual, and 17 pages of release notes.

A0228LL/A

400,00 FF

NEW!

MPW IIgs Cross-Development System

MPW IIgs provides developers with MPW-based tools for Apple IIgs programming. For information regarding the MPW IIgs cross-development system, please turn to the MPW catalog section.

Assembly

Merlin to ORCA/M Source Code Translator

Byte Works, Inc.

This program automatically converts more than 95 percent of old Merlin source code to ORCA/M source code to run on an Apple IIgs, Apple IIc, Apple IIe, or Apple II+ computer. Merlin macros and directives are translated into their ORCA equivalent. The source code for the translator is included. This package contains both ProDOS 8 and GS/OS versions.

- System requirements: An Apple IIgs with 512K RAM and one 3.5-inch disk.

T0003LL/A

240,00 FF

Micol Macro for the Apple IIgs

Micol Systems

Micol Macro for the Apple IIgs is a fully integrated editor/shell/assembler package. It allows the user the ability to generate Micol's own Fast-load, or S16, files. It also allows the ability to generate ProDOS 8 files if the user wishes to write Apple IIe/IIc software on an Apple IIgs.

Micol Macro has full macro capabilities and generates relocatable load files without having to go through a linking phase. Previously assembled files can, however, be linked in during the assembly stage if desired. The software to convert from Fast-Load to S16 files is also included.

- System requirements: An Apple IIgs with at least 768K of RAM and one 3.5-inch disk drive. A monitor capable of 80-column display is also required.
- Contains one 3.5-inch disk and one 110-page manual.

T0297LL/A

800,00 FF

ORCA/Desktop

Byte Works, Inc.

ORCA/Desktop is a complete programming environment for the Apple IIgs and enables easy use of any APW/ORCA compatible compiler or assembler. ORCA/Desktop features multiple window, pull-down menus, and mouse support. Text and graphics can appear on the screen at the same time, allowing program output and source code to be viewed together. Menu commands include file operations (save, open, create, copy, delete, print), editing

functions, compile and link operations, and debug commands. Programmers can talk directly to the ORCA/APW shell and do not give up any power by using the Desktop.

ORCA/Desktop contains two debuggers: a source-level debugger for use with ORCA/Pascal and a native code debugger for use with any EXE file. The package includes a standard linker, a trimmed-down version of the ORCA/APW shell, and free samples.

- System requirements: An Apple IIgs computer and an APW/ORCA compatible compiler or assembler with v. 1.1 or later of the shell.

T0004LL/A

530,00 FF

ORCA/M 1.1

Byte Works, Inc.

ORCA/M is an enhanced version of APW, the standard development environment for the Apple IIgs. ORCA/M includes ASM65816, a fast and sophisticated assembler that separates programs into real subroutines and data segments, with true local and global labels, just like a high-level language. The macro language can call libraries, pass parameters, and define local and global parameters as well as call other macros.

ORCA/M 1.1 contains a UNIX-like shell with more than 50 built-in commands. New commands may also be added, and a command language enables programmers to write powerful script files. Other features include on-line help, a standard linker (which performs automatic library searches and links any standard OMF object modules), a full-screen editor with AppleWorks keystrokes, cut, copy, paste, global search and replace, user-definable macros, several utilities, extensive macro libraries, libraries for integer math and formatted I/O, and free samples.

- System requirements: An Apple IIgs with 512K RAM and one 3.5-inch disk.

T0005LL/A

620,00 FF

ORCA/M Subroutine Library Source for ORCA Products

Byte Works, Inc.

The source code in this package accesses the ORCA/M subroutine libraries and ORCA/Pascal run-time libraries. More than 3,000 lines of source code are available, so these libraries can be modified. Programmers can use these libraries to help them debug or write their own libraries.

- System requirements: APW and an Apple IIgs with 512K RAM and one 3.5-inch disk.

T0010LL/A

360,00 FF

ORCA/M Utility Package #1

Byte Works, Inc.

These utilities add 12 new shell commands to the ORCA/APW shell: calendar, bad-block check, file compare, lower case conversion, quick sort, control character strip, tab and space strip, file compare, line/word/character count, and much more.

- System requirements: An Apple IIgs with 512K RAM and one 3.5-inch disk.

T0011LL/A

320,00 FF

For Merlin 8/16 Plus, see the Apple II catalog section.

BASIC

Apple IIgs BASIC v. 1.0B4

Apple Computer, Inc.

CLASS 3

This offering is a BASIC interpreter for the Apple IIgs. It features structured programming control structures, procedures and functions with local labels, sophisticated I/O functions, and SANE numerics. GSBASIC also includes full support for the Apple IIgs Tools via a high-level, symbolic interface. The language allows use of the Apple IIgs's expanded memory. It includes complete tool interface files as well as a sample program that demonstrates use of GSBASIC to program desktop-style applications.

Apple IIgs BASIC v. 1.0B4 is intended for personal enjoyment only and should not be used to develop commercial software. It has not been upgraded or revised and does not take advantage of new features in system software releases, ROM revisions, or computer model changes.

- System requirements: An Apple IIgs with a minimum of 512K of RAM and one 3.5-inch disk drive.
- Contains one 3.5-inch Apple II disk.

A2Z2014

640,00 FF

AC/BASIC

Absoft Corporation

Written in assembly language, this BASIC compiler is compatible with Microsoft QuickBASIC and is the only compiler on the Apple IIgs that provides direct support of high level graphics. Programs written in QuickBASIC for the Macintosh can easily be moved to the Apple II or vice versa.

- System requirements: An Apple IIgs with 1 MB of RAM.
 - Contains one Apple 3.5-inch disk and one 420-page manual.
- Educational discounts are available from Absoft.

T0001LL/A

1000,00 FF

Micol Advanced BASIC for the Apple IIgs

Micol Systems

Micol Advanced BASIC for the Apple IIgs, like its sister product for the Apple IIe and Apple IIc, is a fully structured, compiled language system and allows the programmer to take advantage of the full memory, graphics, and sound capabilities of the Apple IIgs. Micol Advanced BASIC consists of an 80-column full-screen text editor, a programming shell, a compiler, linker, and library, as well as a significant amount of support software. It also allows the ability to easily link in machine language files written under our in-house macro assembler, Micol Macro.

- System requirements: An Apple IIgs computer with at least 768K of RAM, one 3.5-inch disk drive, and a monitor capable of 80-column display.
- Contains one 3.5-inch disk, one 215-page manual, and a fractal generator as an example program.

T0298LL/A

1200,00 FF

TML BASIC v. 1.10A

TML Systems

This complete BASIC programming environment combines a fully interactive editor and compiler with pull-down menus and windows plus complete access to the Apple IIgs Toolbox. As many as four programs can be open at any time and programs can be compiled to memory or disk. Program size is limited only to the total available internal and disk memory. Also included is a built-in debugger for error detection. TML BASIC v. 1.10A creates stand-alone BASIC applications and is GS/OS compatible.

T0013LL/A

1000,00 FF

C

ORCA/C

Byte Works, Inc.

ORCA/C is the only ANSI C compiler available on the Apple IIgs. It is powerful enough for the professional programmer, yet so easy to use that the beginner will have no trouble learning C with this compiler. Sophisticated compiler optimizations enhance the speed of your programs and compact your code. Debugging is fast and painless with our source-level debugger; you can view program variables and watch their values change during execution, set and clear break points, and step, trace, and execute some or all of your program at full speed.

The package comes with two environments: a Macintosh-like desktop development system and a UNIX-like shell environment. The Desktop features pull-down menus, multiple windows, and full access to the expandable and programmable shell.

ORCA/C features function prototyping and standard ANSI C libraries, plus numerous extensions to support the Apple IIgs

Toolbox. A separate samples disk filled with source code provides you with examples of NDAs, CDAs, and text and desktop programs, giving you a head start on your Apple IIgs C programming.

ORCA/C is compatible with APW C, so you can port your old programs with little effort.

- System requirements: An Apple IIgs with at least 1024K of RAM and one 3.5-inch disk drive.
- Contains three 3.5-inch disks and one 369-page manual.

T0299LL/A

1200,00FF

Pascal

ORCA/Pascal

Byte Works, Inc.

ORCA/Pascal is a complete, stand-alone ISO/ANSI standard compiler plus extensions. Extensions include UCSD-style units for elegance in modularization, in-line tool calls, type casting, pointer operations, powerful compiler directives, OTHERWISE clause in CASE statements, additional data types of longint, double precision, and byte; both C- and Pascal-type strings with numerous built-in string functions, bit-manipulation operations, the ability to redirect output anywhere desired; and the ability to call routines written in any APW-compatible language.

ORCA/Pascal comes with both the popular Desktop environment and the traditional full-screen text editor. The Desktop features a source-level debugger: programmers can step, trace, set auto-go and break points, and specify variables they wish to track. The Desktop contains a special graphics window, so users can see graphics output without having to leave their desktop. The ORCA shell can also be used so no power is lost by going to the Desktop. The number of open windows is limited only by available memory.

Also included are GS/OS, a standard linker, system libraries, text editor, full support for the Apple IIgs Toolbox interface files, and a separate disk with free samples.

- System requirements: An Apple IIgs computer. The text version requires 768K of RAM. The Desktop and debugger require 1 MB of RAM.

T0012LL/A

1200,00FF

TML Pascal II for the Apple IIgs v. 1.0

TML Systems

TML Pascal II is a complete Pascal programming language combining a fully interactive editor and compiler with pull-down menus and windows. Complete support for Apple's System Software v. 5.0 and GS/OS is also provided. Perhaps the most significant feature found in TML Pascal II is its resource editor, which enables programmers to graphically define the menus, windows, dialogs, icons, etc., which are so important to creating Apple IIgs applications.

Other features include a WYSIWYG text editor supporting an unlimited number of open windows at one time, user-selected fonts and font sizes, undo editing, support for file sizes greater than 32K bytes in size, and a built-in debugger for error detection. Complete GS/OS Toolbox interfaces are also included. Program size is limited only to total available internal and disk memory. Use TML Pascal II to create stand-alone Apple IIgs applications and both new and classic desk accessories.

- System requirements: An Apple IIgs computer with at least 768K of RAM and one 3.5-inch disk drive.

T0343LL/A

1000,00FF

TML Source Code Library II for the Apple IIgs v. 1.0

TML Systems

This library is a complete set of more than 15 example programs written in TML Pascal II. TML Source Code Library II is designed to save the TML Pascal II programmer months of time learning how to program the Apple IIgs Toolbox. Examples include programs using QuickDraw, menus, dialogs, Desk Manager, sound, fonts, windows, note synthesizer, desk accessories, events, and much more. An invaluable tool for any TML Pascal II and TML Pascal II v. 1.0 programmer.

T0344LL/A

400,00FF

TML Speech Toolkit v. 2.00A

TML Systems

The TML Speech Toolkit is designed to add the latest in English-text-to-speech technology to programs written in either TML BASIC or TML Pascal. The program includes an unlimited English vocabulary with male and female voices. The toolkit also provides complete control over the speed, pitch, and volume of the created speech. Interfaces for TML BASIC and TML Pascal programs are included as well as a stand-alone application that allows any English text, word, or phrase to be entered on the screen and spoken by the Apple IIgs.

- System requirements: An Apple IIgs computer with 768K RAM, one 3.5-inch disk drive, and either TML BASIC or TML Pascal.

T0016LL/A

560,00FF

Debuggers and Supplemental Tools

GSBug and Debugging Tools v. 4.0B1

Apple Computer, Inc.

CLASS 1 B

This beta version of Apple Computer's new machine language debugger works on any Apple IIgs with System Software v. 4.0.

With GSBug, you can step through your code; save a trace history to a file on disk; define and insert breakpoints into your code; define and use memory protection windows; view the debugger's master display, which shows the contents of the 65816 registers; break-

points, and memory protection ranges that you have set, portions of the stack and memory, and a disassembly of your program's code.

Also included with GSBug are the Loader Dumper, Memory Mangler, and Scrambler Classic Desk Accessories (CDAs). Loader Dumper lets you see where in memory the System Loader has loaded each segment of your program and gives you information about the various tables and variables that the loader uses. Memory Mangler lets you execute a variety of Memory Manager routines and provides lists of the memory blocks that are in use, purged, and disposed of by the Memory Manager. Scrambler helps you find out if your application has incorrectly dereferenced a memory handle by not having first locked the handle.

The GS/OS Exerciser, also included in this package, lets you "exercise" GS/OS by practicing its calls from the keyboard. This utility is supplied both as an application and as a CDA.

Note: Before you can ship products that include GSBug you must get a license from:

Apple Computer Software Licensing
20525 Mariani Ave., M/S 38-1
Cupertino, CA 95014

- System requirements: An Apple IIgs computer.
- Contains one Apple II disk and one 140-page manual.

A0037LL/A

240,00FF

Apple IIgs Icon Editor v. 1.1

Apple Computer, Inc.

CLASS 2

Due to its usefulness, the Apple IIgs Icon Editor is a tool Apple has decided to make available early in its development cycle. This product is designed to create and modify icons for display by the Apple IIgs Finder. Icons can be created for applications or for documents. Using the Icon Editor, a programmer can match application icons to document icons. When a user opens a document from the Finder, the appropriate application is launched by double-clicking on its icon.

- System requirements: An Apple IIgs computer.
- Contains one 3.5-inch disk and a 15-page reference.

A0015LL/A

300,00FF

Apple IIgs Source Code Sampler Volume 1

Apple Computer, Inc.—September 1988

CLASS 1

Containing source code for Apple IIgs applications that use the desktop interface, this current sample volume contains an empty shell application, an animation demonstration, a custom control, custom windows, and dialogs. Additional samples offer window caching, list handling, and a sampled sound player. Also included is a Print Manager record spy, custom menus, and a math function grapher that uses SANE. C source code samples include an empty shell application and a program lister that can print to the Apple

ImageWriter and Apple LaserWriter. Source code is included for both the APW native development system and the MPW IIgs Cross-Development System, in both Assembly and C.

- System requirements: An Apple IIgs computer for execution, plus APW native or MPW IIgs Cross-Development System.

- Contains two 3.5-inch Apple II disks and one Macintosh disk.

A2Z1003

240,00FF

ICONIX for the Apple IIgs

So What Software

ICONIX is a super Hi-Res graphics and animation interface for Applesoft and the Apple IIgs. Sixteen new commands for Applesoft link your BASIC programs to the Super Hi-Res screen with PEEK, POKE, and CALL commands. You can plot 4096 colors in 320 mode; edit, plot, float, or animate icons; and plot Super Hi-res fonts in any color.

Use the mouse-linked cursor and color or inverse selector boxes to create your menus or screen environments. BLOAD Super Hi-Res image files to any bank in memory from ProDOS 8. Increase the potential size of your Applesoft programs by 16K and still have room for exciting animation and graphics.

ICONIX for the Apple IIgs is menu driven and comes on an unprotected 3.5-inch disk. The program's instructions, tutorials, and programming tips are included on the disk.

- System requirements: An Apple IIgs computer with a 3.5-inch drive.

- Contains one 3.5-inch disk and user manual.

T0295LL/A

400,00FF

SONIX for the Apple IIgs

So What Software

SONIX for the Apple IIgs gives you the ability to use all the features of the Apple IIgs's built-in Ensoniq synthesizer from BASIC under ProDOS 8.

SONIX's two powerful editors and three special user interfaces create a full-function sound and music environment you can control from your own BASIC programs with just a PEEK, POKE, and a CALL. Included are a waveform editor, 30-voice music editor, 30-voice sequencer, our exclusive Longloader data handling utility, BASIC interface, and construction plans for an inexpensive and reliable digitizer pre-amp for sampling sound.

SONIX for the Apple IIgs is menu driven and comes on a non-copy-protected 3.5-inch disk. Full instructions, tutorials, sound library, and programming tips are all on the SONIX disk.

- System requirements: An Apple IIgs computer and a 3.5-inch disk drive.

- Contains one 3.5-inch disk and a user manual.

T0296LL/A

480,00FF

Programmer's Online Companion, Apple IIgs Version

Addison-Wesley Publishing Company

For those who use the Apple IIgs Toolbox, this online reference utility is a welcome addition to all programming tools. This is a classic desk accessory accessed from within any development system through the desk accessory menu. From there, the toolbox calls can be accessed quickly, then copied and pasted directly into source code. The language editor remains active at all times. Typing errors are virtually eliminated.

- System requirements: An Apple IIgs, minimum memory requirement 150K above development system.

T0189LL/A

400,00 FF

System Software

Apple IIgs System Disk v. 5.0.2

Apple Computer, Inc.

CLASS 1

This product contains the most current release of the Apple IIgs system software, including GS/OS. This version supports networking with the Apple IIgs AppleShare File Server.

The package contains a 30-page release note that summarizes program bug fixes and additions to the system software.

For complete information on GS/OS, you need the *GS/OS Reference Volume I and II, Beta Drafts*. For complete information on all tool call changes since the compilation of the *Apple IIgs Toolbox Reference*, you need the *Apple IIgs Toolbox Reference, Volume III, Beta Draft*. All these documents are available separately from APDA.

Note: This product is designed for developers and does not contain the end-user documentation. The end-user product is available at your authorized Apple dealer.

Note: Before you can ship Apple IIgs System Software v. 5.0.2 with your product, you must obtain a license from:

Apple Computer Software Licensing
20525 Mariani Ave., M/S 38-1
Cupertino, CA 95014

- System requirements: An Apple IIgs computer with 512K RAM; 768K RAM required for AppleShare.
- Contains two 3.5-inch Apple IIgs disks and 44 pages of release notes.

A221002/A

200,00 FF

NEW!

Books and References

Apple IIgs Assembler Toolbox Quick Reference

Apple Computer, Inc.—1988

CLASS 1

The *Apple IIgs Assembler Toolbox Quick Reference* is a summary of the toolbox calls, shown as used from assembly language, up to date for System Disk 3.2. The entries include the call name, parameters, and a short description of the call. This quick-reference summarizes the 1,300 pages in the *Toolbox Reference* in a compact document but does not replace it: not enough detail is supplied to use this reference as a stand-alone product.

- Contains 150 pages.

A0018LL/A

160,00 FF

Apple IIgs C Toolbox Quick Reference

Apple Computer, Inc.—1988

CLASS 1

The *Apple IIgs C Toolbox Quick Reference* is the most recent summary of the toolbox calls, shown as used from C, for System Disk v. 3.2. The entries include the call name, parameters, and a short description of the call. This quick reference summarizes the 1300 pages in the *Apple IIgs Toolbox Reference* in a compact document but does not replace it, since not enough detail is supplied to use this reference as a stand-alone product.

- Contains 150 pages.

A0019LL/A

160,00 FF

Apple IIgs Firmware Reference

Addison-Wesley Publishing Company—1987

by Apple Computer, Inc.

The *Apple IIgs Firmware Reference* provides an extensive description of the internal operations of the Apple IIgs and its firmware facilities. It begins with an overview of the firmware and then offers in-depth information on how to use the firmware to access the system monitor, mini-assembler, disassembler, keyboard, mouse, video display, serial ports, and disk drives. Appendixes demonstrate methods of including firmware calls within programs.

- Contains 352 pages

A2G0054

250,00 FF

Apple IIgs Hardware Reference

Addison-Wesley Publishing Company—1987

by Apple Computer, Inc.

Illustrated with photographs and detailed schematics, this reference presents a comprehensive description of the Apple IIgs hardware. In addition, the manual provides detailed information on the use of input devices, video display, disk drives, serial ports, and sound and graphics capabilities. This volume, with the *Apple IIgs Firmware*

Reference, provides authoritative information for assembly language programmers and hardware designers.

- Contains 312 pages.

A2G0055

250,00 FF

Apple IIcs ProDOS 16 Reference

Addison-Wesley Publishing Company—1987

by Apple Computer, Inc.

This guide documents the ProDOS 16 operating system. In addition, it describes the System Loader, a programming tool that works with ProDOS 16 to load, unload, and manipulate program segments. The 3.5-inch disk included with the book contains ProDOS 16 and an exerciser program that allows programmers to practice ProDOS calls without writing a system program.

- Contains one 3.5-inch Apple II disk and 360 pages.

A2G0056

250,00 FF

Apple IIcs Toolbox Reference, Volumes I and II

Addison-Wesley Publishing Company—1987

by Apple Computer, Inc.

Together, these two volumes provide a comprehensive guide to the Apple IIcs Toolbox composed of over 800 ready-to-use tool set routines that enable programmers to comply with the Apple desktop interface standards and access the capabilities of the Apple IIcs. Organized alphabetically by tool set name, each chapter includes an overview of all the routines in the set, a complete description of each routine, and a summary of constants, data structures, and errors. Volume I contains 776 pages. Volume II contains 700 pages.

Apple IIcs Toolbox Reference, Volume I

A2G0057

280,00 FF

Apple IIcs Toolbox Reference, Volume II

A2G0058

280,00 FF

Apple IIcs Toolbox Reference Volume 3, Beta Draft

Apple Computer, Inc.

CLASS 1B

This manual supplements the Apple IIcs Toolbox Reference Volumes I and II listed above. It covers changes to the Apple IIcs Toolbox since Apple IIcs System Software v. 3.2 and includes new features of Apple IIcs System Software in versions 4.0 and 5.0.

New information in this manual covers resources, menus, controls, text edit, and windows. This package also covers the sound tools in more detail than previous notes.

- Contains 940 pages.

A0229LL/A

280,00 FF

NEW!

GS/OS Reference, Volume 1, Beta Draft

Apple Computer, Inc.—1988

CLASS 1B

This beta reference volume describes how applications interact with GS/OS, the new Apple IIcs operating system. This draft details all application-level GS/OS calls and documents the file system translators (FSTs).

GS/OS replaces ProDOS 16 as the preferred operating system for the Apple IIcs. GS/OS offers faster execution, multiple file-system access, file access to character devices, and direct device-access. The new operating system also provides for device-independence and compatibility with large GS/OS memory space, as well as compatibility with standard Apple II (ProDOS 8-based) and early Apple IIcs (ProDOS 16-based) applications.

Included with this package is a GS/OS call exerciser. This program allows developers to experiment with the new file system calls.

- Contains one 3.5-inch Apple II disk and one 352-page manual.

A2F2037

350,00 FF

GS/OS Reference, Volume 2, Beta Draft

Apple Computer, Inc.—1989

CLASS 1B

Describing the GS/OS application interface to drivers, this beta reference volume also documents all device calls, describes the individual GS/OS device drivers that applications can call, and describes the driver interface to GS/OS. The draft shows how to design and write a device driver and documents all calls a driver must accept. Additionally, the beta manual describes how a driver can get needed information from GS/OS, procedures to write and install GS/OS interrupt and signal handlers, and code segments that execute automatically in response to hardware or software requests.

- Contains 548 pages.

A0008LL/A

350,00 FF

Programmer's Introduction to the Apple IIcs

Addison-Wesley Publishing Company—1988

by Apple Computer, Inc.

This guide explains essential concepts and provides practical advice for programming the Apple IIcs. Three versions of a functioning sample program in 65816 Assembly Language, C, and Pascal demonstrate crucial Apple IIcs programming topics such as event-driven programming, the Apple Desktop Interface, and effective use of the Apple IIcs Toolbox. Other topics include file handling, memory management, and writing specialized programs such as desk accessories.

- Contains 544 pages.

A2G0060

250,00 FF

Technical Introduction to the Apple IIcs

Addison-Wesley Publishing Company—1986

by Apple Computer, Inc.

The *Technical Introduction to the Apple IIcs* provides programmers and sophisticated users with numerous insights into the inner workings of the Apple IIcs. The book presents an overview of the general design, system architecture, programming environments, toolbox, graphics modes, and sound capabilities. It also serves as an introduction to the entire series of Apple IIcs technical manuals.

- Contains 160 pages.

A2G0062

100,00 FF

Apple IIcs Assembly Language Programming

Bantam Books—1987

by Leo J. Scanlon

Providing a comprehensive introduction to assembly language programming for the Apple IIcs computer, the book includes complete coverage of the 65816 microprocessor's instruction set, arranged in logical groups for quick learning and easy reference; step-by-step procedures for using APW (Apple IIcs Programmer's Workshop); access to the built-in Apple IIcs Toolbox, which can save you hours of programming time with its pre-programming functions and capabilities; practical programming examples for displaying graphics, windows, menus, and controls; and valuable reference tables and helpful illustrations.

For the reader who has done some programming in BASIC or another high-level language, this book provides a complete, easy-to-read introduction to the machine's toolbox and shows how to harness its full power through assembly language.

- Contains 448 pages.

T0135LL/A

200,00 FF

Apple IIcs Technical Reference

Osborne/McGraw-Hill—1987

by Michael Fischer

This book looks inside the Apple IIcs and gives serious programmers detailed information on all aspects of its architecture. Fischer covers the software features of the entire system, including the Apple IIcs's powerful toolbox. Programming with color graphics, sound, and desk accessories are thoroughly covered.

- Contains 697 pages.

T0136LL/A

200,00 FF

Exploring the Apple IIcs

Addison-Wesley Publishing Company—1987

by Gary B. Little

This is an in-depth guidebook to toolbox programming on the Apple IIcs for assembly language programmers. Little discusses the architecture and capabilities of the 65816 microprocessor, software development environments and utilities, APW (Apple IIcs Program-

mer's Workshop), file management with ProDOS 16, memory management, use of Super Hi-Res windows and menus, and event handling.

- Contains 552 pages.

T0137LL/A

230,00 FF

Exploring Apple GS/OS and ProDOS 8

Addison-Wesley Publishing Company—1989

by Gary B. Little

This guide presents sophisticated programming techniques for the new GS/OS operating system for the Apple IIcs as well as the ProDOS 8 operating system for the Apple IIe and Apple IIc. It is a comprehensive guide to the many features of the GS/OS and ProDOS 8 operating systems and presents techniques for experienced assembly language programmers. Little covers such essential topics as file management, the Machine Language Interface, BASIC.SYSTEM programming, communicating with the SmartPort controller, interrupts, disk drivers, and clock drivers.

- Contains 384 pages.

T0190LL/A

220,00 FF

Programming the 65816, Including the 6502, 65C02, and 65802

Brady Books—1986

by Ron Lichty and David Eyes

The next generation of the 6500 series is discussed in this book, which covers advanced programming topics. Lichty and Eyes detail the programming strengths and differences of the 16-bit 65816, 6502, and 65C02, explain how to take advantage of the 16-bit capabilities of the 65816, and discusses how to program with minimal frustration. This resource includes a brief review of basic concepts, architecture, and logical operations.

- Contains 611 pages.

T0139LL/A

220,00 FF

Programming the Apple IIcs in Assembly Language

Brady Books—1989

by Ron Lichty and David Eyes

Whether in the hands of a hobbyist or a professional programmer, this step-by-step approach provides fundamental tools necessary each time an Apple IIcs application is created in 65816 assembly language. Use this reference to learn about 65816 assembly language programming concepts; using the APW development environment to develop for the Apple IIcs Toolbox; and Apple IIcs system architecture for advanced project development. The learning process is managed through the development of (in stages) a "Hello World" program into a complete Apple IIcs desktop application with the now-standard menu bar and multiple, sizable, scrollable windows.

- Contains 550 pages.

T0252LL/A

220,00 FF

The Disk: Programming the Apple IIcs in Assembly Language

Programmer's Source—1989

by Ron Lichty and David Eyes

The book *Programming the Apple IIcs in Assembly Language* by Ron Lichty and David Eyes provides an easy-to-follow, complete, step-by-step guide to creating full-fledged Apple IIcs applications. This product is the disk containing the book's "Hello World" program, which is developed in stages from an 8-line program that prints on the text screen to a full-blown desktop program with menu bar, dialogs, icons, and multiple, sizable, scrollable windows.

This disk contains assembly source for "Hello World" for every point at which the book suggests that source code can be assembled and linked, from Chapter 3 through Chapters 5-9. In addition, the disk contains the EXEC file MACGENTT and the macro file M16.MYUTILS. The disk also contains assembled versions of the "Hello World" program.

- System requirements: An Apple IIcs running v. 1.0 or later of either APW or ORCA/M.
- Contains one 3.5-inch Apple II disk and three pages.

T0294LL/A

140,00 FF

Programming the Apple IIcs in C and Assembly Language

Howard Sams Publishing Company—1987

by Mark Andrews

Readers are allowed to take advantage of the added power, speed, graphics, and sound capabilities of the Apple IIcs—the evolutionary upgrade to the highly successful Apple IIe computer through this single source that gives programmers what is needed to program the Apple IIcs in C and to integrate assembly language to speed up or "supercharge" their programs. The first half of the book is devoted to basic programming techniques and to an overall look at the Apple IIcs. The second half concentrates on intermediate and advanced programming techniques and is complete with useful type-and-run programs.

- Contains 448 pages.

T0140LL/A

200,00 FF

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CLASS 1: The products in this category consist of final versions of key technical references and development tools which have been fully documented and tested by Apple Computer. The technical references are definitive works which all programmers will use for developing applications.

CLASS 1 B: The products in this category consist of beta (pre-final) versions of products that will be reclassified as Class 1 products once their development cycle is completed.

CLASS 2: The products in this category may not be fully tested and the documentation may be in preliminary draft form. Some of the products in this category are new offerings that are so useful that Apple Computer has decided to make them available early in their development cycle. Other products may not be vital to a software development project but are interesting and useful nonetheless.

CLASS 3: This category consists of products that have been developed by Apple Computer for the purpose of prototyping interesting development environments or for quickly solving specific problems. Other products were actually final products at one time but have not been revised or upgraded since, nor are they expected to be upgraded. The latter software products do not take advantage of new features in recent system software releases or in ROM revisions and may not work perfectly with newer system software releases or computer models. Apple Computer does not recommend that you use Class 3 products for developing commercial software—they are intended for your personal enjoyment only.

