

## Great Support Software for *Micol Advanced BASIC/GS*

Dear *Micol Advanced BASIC/GS* User:

I would like to tell you about some special products Micol Systems has developed specifically for Apple IIGS users of *Micol Advanced BASIC*. These products are: the *Micol Advanced Utilities/GS* (designed to help you get the maximum understanding of many of the features of *Micol Advanced BASIC/GS*) and *Micol Macro/GS* (a macro assembler for BASIC programmers).

The *Micol Advanced Utilities/GS* is not a single product, but is really two products in one: the *Micol Media Management Utilities* (a GS/OS disk management system), and the *Micol Software Calculator* (a 17 digit software calculator for scientific and home uses).

The *Micol Media Management Utilities* has all of the features, and more, of a quality disk management system you require for everyday usage. Do you have so many directories on your system that it's almost impossible to locate a particular file? With the *Micol Advanced Utilities/GS*, you'll find that hard-to-locate file in just a few seconds. What if you know only a part of the filename, or just the date of creation? That's still okay. Need to know the contents of a file in either text or hexadecimal format? Again, no problem.

Need to quickly copy files, or even whole directories? Which are the bad files on your system? Wish to see the directory listed in alphabetical order, or ordered by file type, date, etc.? Need to format a device in 2/1 or 4/1 interleave? With the *Micol Media Management Utilities*, you can do these, and a whole lot more. And it's as user friendly as can be.

Need the use of a calculator, but don't want to bother looking for one? Or even more, need more accuracy than your present calculator has? Or need to see the results in hexadecimal? Well, the *Micol Software Calculator* is the answer. The *Micol Software Calculator* does usual calculator math, has memory usage, has standard trigonometric functions, does logs, etc. And out to an accuracy of 17 digits! Think what such a calculator would cost at your local Radio Shack, if you could find one.

As an added bonus, we'll even include a quick access ASCII chart within the *Micol Advanced Utilities/GS*. If you need to know the ASCII value of a character, no need to hunt for your ASCII chart anymore. And what about MouseText characters? Most ASCII charts don't even list them! For example, what value makes an Open-Apple on the screen? You'll always have these values handy if you have the *Micol Advanced Utilities/GS*.

The *Micol Advanced Utilities/GS* is a completely integrated package, so you can easily go from

one utility to another. And because the Utilities are all Menu driven, they're so easy to learn and use. In addition, our online Help Screens mean even the documentation is easy to access. If you like *Micol Advanced BASIC/GS*, you'll certainly like the *Micol Advanced Utilities/GS*.

Also, the *Micol Advanced Utilities/GS* comes in three easy-to-use versions: a GS/OS application that can be launched from the FINDER, a Classical Desk Accessory that is always available for easy, immediate access, and a *Micol Advanced BASIC/GS* utility that is easy to access from the *Micol Advanced BASIC/GS* shell.

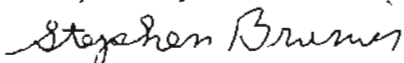
**We've saved best for last.** The *Micol Advanced Utilities/GS* was written entirely in *Micol Advanced BASIC* for the Apple IIGS by the author of *Micol Advanced BASIC*, himself. You'll be amazed at the speed and power of an expertly written *Micol Advanced BASIC/GS* program. With every order of the *Micol Advanced Utilities/GS*, you'll also receive the source code to the Utilities absolutely free of charge. This is the ideal way to learn structured programming as the source code follow all the rules for good structured programming.

The price for the *Micol Advanced Utilities/GS* (plus source code) is only \$24.95 in US funds. If you are serious about your BASIC programming, then this is an offer you shouldn't pass up.

And to those of you who wish to get into assembly language on your Apple IIGS, we're offering *Micol Macro/GS*, our inhouse macro assembler, for only \$69.95US (regularly \$89.95US). We'll even pay the shipping. As you may know, both *Micol Advanced BASIC* for the Apple IIGS, and *Micol Advanced BASIC* for the Apple IIe/c, as well as *Micol Macro/GS* itself, were written using *Micol Macro/GS*, so you know it must be powerful.

Also, because the programming environment to *Micol Macro/GS* is so similar to *Micol Advanced BASIC/GS* (the text editor and shell are almost identical), it's the easiest assembler package, by far, for you to learn. If you've been considering adding those fast machine language routines to your *Micol Advanced BASIC/GS* programs, or just thinking about getting into assembly language, now's the time.

Order today, you won't be disappointed. For fast credit card orders, or for additional information, please call (416) 495-6864 during normal business hours (EST), or use the handy order form included with this package.

Respectfully  
  
Stephen Brunier  
President

# Order Form

Yes, I wish to take advantage of this special offer:

<input type="checkbox"/> Micol Advanced Utilities/GS	\$24.95	\$ _____
<input type="checkbox"/> Micol Macro/GS	\$69.95	\$ _____
	<b>Total</b>	\$ _____

Check/Money Order Enclosed

Charge my:  Visa  MasterCard

Card Number \_\_\_\_\_ Expires \_\_\_\_\_

Name \_\_\_\_\_ Signature \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Postal Code \_\_\_\_\_ Country \_\_\_\_\_ Telephone (\_\_\_\_) \_\_\_\_\_

Micol Systems Inc., 9 Lynch Road, Willowdale, Ontario, Canada M2J 2V6

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# The Ideal Companion to Micol Advanced BASIC

Fast-flexible-efficient, this describes assembly language and why the best micro computer software is usually written in assembly language.

Introducing *Micol Macro*<sup>™</sup>... the completely integrated full screen editor, monitor/shell, auto-relocating macro assembler for the Apple IIGS.

*Micol Macro* was created on the Apple IIGS taking advantage of its memory capabilities and the GS/OS operating environment. All commands, whether accessing the editor, the macro assembler, or communicating with the operating system are performed instantaneously and with little effort. Once *Micol Macro* is loaded, you're ready to go. Returning to *Micol Macro* after testing your programs is as easy as two key strokes.

In addition, *Micol Macro* creates compact relocatable load files without a time consuming linking phase. These files are significantly smaller than the comparable APW load files and load several times faster. If you desire, however, you can easily convert these fast, compact load files into APW load files.

*Micol Macro* is the ideal companion software to *Micol Advanced BASIC* and is the only assembler designed to be completely compatible with it. **If you want to get the maximum power out of your computer through *Micol Advanced BASIC*, then *Micol Macro* is a must.**

Here is just some of what the *Micol Macro* Monitor/Shell has to offer you:

- |                             |                          |                   |
|-----------------------------|--------------------------|-------------------|
| @ Batch Processing          | @ LOCK/UNLOCK files      | @ Copy files      |
| @ Show all online volumes   | @ BLOAD or BRUN programs | @ FORMAT a volume |
| @ List text files to screen | @ Instand HELP screen    | @ MORE            |

Easily create your assembly language files with our full screen text editor. Here is just some of what the editor has to offer:

- |                              |                             |                             |
|------------------------------|-----------------------------|-----------------------------|
| @ Complete 80 column support | @ Instant HELP screen       | @ Compact text file storage |
| @ User friendly environment  | @ Easy to remember commands | @ MORE                      |

The macro assembler is true state-of-the-art. Here are just a few of its many features:

- |                                     |                                       |                          |
|-------------------------------------|---------------------------------------|--------------------------|
| @ Complete macro capabilities       | @ Relocatable code generation         | @ Static code generation |
| @ User defined labels of any length | @ Auto labels where desired           | @ Complete 65816 syntax  |
| @ Chain or include files            | @ Link to <i>Micol Advanced BASIC</i> | @ MORE                   |

In addition, the superior documentation, complete with excellent example programs, will make learning *Micol Macro* a breeze.

Why wait any longer? Now is the time to release the full potential of *Micol Advanced BASIC*.

**Micol Macro**  
**Macro Assembler for the Apple IIGS**  
**Micol Systems, 9 Lynch Road, Willowdale, Ont. Canada M2J 2V6**

Requires an Apple IIGS with minimum 512K RAM, minimum one 3.5 inch disk drive. GS/OS supplied on disk. Apple IIGS and GS/OS are registered trademarks of Apple Computer, Inc.

# ***Micol Advanced BASIC*** **for the Apple IIGS Version 5.0** **And A Whole Lot More**

Dear *Micol Advanced BASIC* User:

Micol Systems is pleased to announce major improvements to its software line. Please pay special attention to the information in this letter; we have never been able to offer so much in a single mailing before.

The most important announcement is Version 5.0 of *Micol Advanced BASIC* for the Apple IIGS, which offers so much more over previous releases. Version 5.0 not only has valuable additions, it has even been structurally improved.

Also just released is Version 3.0 of *Micol Macro*, a major advancement to our inhouse macro assembler. Without these improvements to *Micol Macro*, many of the additions to Version 5.0 of *Micol Advanced BASIC* would not have been possible.

And third, through a special deal with Pegasoft of Canada, we really have something special for those of you who make use of the Super High Resolution graphics of *Micol Advanced BASIC* for the Apple IIGS.

In addition, we are offering special reduced prices on some of our other software. Please read on and you'll see why this announcement is so important.

## **Micol Advanced BASIC/GS Version 5.0**

### **Total Software Integration**

Earlier versions of *Micol Advanced BASIC* had separate files for the compiler/linker, text editor and development run time library; now a thing of the past. Under Version 5.0 of *Micol Advanced BASIC*, all files have been integrated into one single module. Not only does this make the system more convenient to use, but it also allows for faster loading and better use of your Apple IIGS's memory.

But that's not all!! *Micol Advanced BASIC* for the Apple IIGS Version 5.0 comes in two distinct file formats, our own MCL format which all previous versions were under, and a GS/OS Application (S16) file which is the standard load module format on the Apple IIGS. Although we still feel our MCL format offers greater advantages over the S16 format, many of you will still like a GS/OS Application file that can be directly launched from the Finder. Now it's your choice.

There's still more!! Through our newly developed MCL and S16 file compaction schemes, described later, each load module type is as compact as can be. This not

only will save you valuable disk space, but also makes the modules faster booting.

Version 5.0 offers you your choice of load module formats, better use of disk space, more efficient use of memory and is faster loading. There's a lot more.

## **New, Powerful Debugger**

The ability to interrupt a program, determine values of various variables, and continue on with the program's execution is a powerful debugging tool. Well, *Micol Advanced BASIC* Version 5.0 has this debugging tool, and even more.

Under Version 5.0, interrupt your program with a special control key or with strategically placed **STOP** statements within your program and the magic begins. Now you can obtain the value of any variable with the use of a **PRINT** command entered from the Shell, almost exactly as under Applesoft. Global variables, local variables, arrays, booleans, etc.; they can all be displayed.

Want to automatically see the values of several variables each time the program is interrupted? Why not build a table of variables that will automatically be displayed each time the program is interrupted. Version 5.0 lets you do this. Want to step through a program and have these variables' values displayed after the execution of each line? Version 5.0 lets you do this, too.

Then, as under Applesoft, enter **CONT** from the keyboard, the program's text screen is restored, and your program resumes execution exactly as if it had never stopped. Interrupt the program as often as you want. Nice feature, isn't it?

## **Command Macros**

How many times have you repeatedly had to enter the same command and thought, "why can't they simplify this". We just did. Under Version 5.0, build a macro, or even better, a table of macros, and use these shorter inputs instead.

Let's say, for instance, you keep having to change the default prefix that consist of dozens of characters. Under Version 5.0, you can define each long command to as little as a single character. Enter each shorthand command and it's as if you had entered the entire command. Think of the time and effort this will save.

## **Compact, Faster Loading, Run Time Modules**

Once your programs are finished and ready to be used, wouldn't it be nice to have a way to minimize the size and loading time of the run time modules (MAB files) created by the compiler/linker? Under Version 5.0, it's a snap. Make use of the **COMPACT** Shell command, and these file sizes will be reduced by about 25%. And don't forget, these smaller files are also faster loading files.

In addition, this compaction scheme works on MCL files generated by *Micol Macro*, the assembler used to develop *Micol Advanced BASIC*, although this compaction is less than 25%. We turned this compacter on all the MCL files we supply to you on our *Micol Advanced BASIC* Version 5.0 system disks and made

them about 12% smaller and faster loading.

## **Major Improvements in S16 and CDA Conversions**

Under earlier versions of *Micol Advanced BASIC*, converting your compiled program to a GS/OS stand alone Application (S16) file or Classic Desk Accessory (CDA) was done by means of a special program and the conversion process created quite large disk files. Now, each conversion can easily be done by a single Shell command, and the files created are much smaller than before.

In a test example done for this letter, an object file converted under the old system required more than 400 blocks of disk space, while, for the very same program, under Version 5.0, only 240 blocks were required. In other words, **the file size was reduced by more than 160 blocks**. These files couldn't get any smaller. And, just imagine how much faster such files will load and execute.

## **Partial Loading of Files**

Over the years, we've had numerous requests for a quick and easy way to read just part of a file into memory, rather than loading the entire file in at one time. By a clever expansion of the **BLOAD** command, under Version 5.0, it is possible to skip selected portions of a file before the loading actually begins. This can be used as a sort of fast **GET** command, or as a fast way to process information in a file without requiring the use of large amounts of memory.

## **More Memory for Program Editing**

Earlier versions of *Micol Advanced BASIC* automatically grabbed 128K of memory for your program editing, given sufficient memory in your computer. Now, under Version 5.0, you can allocate as much as 256K, enough for about 6000 lines of code. If you were using **CHN** or **INCLUDE** simply because there wasn't enough memory in the editor buffer space before, you'll like this addition.

## **Mark and Return to Current Edit Position**

While editing a program under versions prior to Version 5.0, there was no easy way to leave the position you were editing and return to that same position without noting where you had been. Under Version 5.0, just mark the spot with a special command, and automatically return to that spot any time you like. Even if you've added or deleted lines, the mark will automatically move.

## **Micol Advanced BASIC/GS Manual**

The *Micol Advanced BASIC* for the Apple IIGS manual has been updated to include all additions and improvements made since Version 4.0 was released well over a year ago. This, of course, includes an updated Table of Contents and Index. This makes for a complete reference manual for Version 5.0.

There have been other improvements as well, and any bugs that have been

reported to us (there weren't many) have been fixed. We do our best to provide you with the most error free software possible; a fact most of you seem to appreciate.

*Micol Advanced BASIC* for the Apple IIGS Version 5.0 is offered at a special price to our customers for just \$59.95CDN plus \$10.00 shipping and handling (total cost of \$69.95CDN). This price is complete and includes the Version 5.0 manual.

## **Micol Macro Version 3.0 Upgrade**

*Micol Advanced BASIC* was developed exclusively with our inhouse macro assembler, *Micol Macro*. As powerful as *Micol Macro* was, many of the improvements to *Micol Advanced BASIC* Version 5.0 could not have been done without major improvements to *Micol Macro*. There's not sufficient space here to give these improvements the mention they deserve, but here's a brief description:

1. Program segmentation has been greatly simplified. Just make use of another **ORG** within your program, and a program segment has automatically been created. Labels in one segment may be easily referenced by any other segment. This allows for creation of programs that require large amounts of data and/or program space.
2. Creation of object modules that can be separately developed and later merged into a single module is a simple task. And one module can easily reference any part of any other module. Use of separate object modules will greatly reduce development time on major projects. Please note that *Micol Macro* object modules are not compatible with APW object modules.
3. A convert command, built-in to the Shell, not only allows easy conversion from MCL file format files to GS/OS Application (S16) files, but also creates the most compact S16 files possible. These new files are usually about 30% smaller than those created under all previous versions of *Micol Macro*. This is the reason the GS/OS Application version of *Micol Advanced BASIC* is so small; even a bit smaller than the compacted MCL format version. I know of no compaction program that will reduce these files so much.
4. Easily change the file type and/or auxiliary file type to most anything of your choosing. This can be now done by a simple Shell command.

Please note that we have maintained the manual to the previous version and included an update information file on disk to cover the improvements.

Although *Micol Macro* Version 3.0 has been greatly improved, we are still offering it for just \$89.95CDN. As an added bonus, with this mailing, you may purchase *Micol Macro* Version 3.0, complete with manual and binder, for just \$59.95CDN plus \$5.00 shipping and handling (total charges of \$64.95CDN). If you already have *Micol Macro*, and only wish to update, you may purchase the software update (no manual and binder supplied) for just \$24.95CDN plus \$3.00 shipping and handling (total charges of \$27.95CDN).

## ***Micol Advanced BASIC* for the Apple IIe/c**

Our previous mailing offered *Micol Advanced BASIC* for the Apple IIe/c to our



Apple IIGS customers. As there was sufficient interest before, we will repeat this offer. Here is what our previous offer had to say:

Why might someone who is programming his/her Apple IIGS have an interest in having *Micol Advanced BASIC* programs for the Apple IIe/c? While the Apple IIe/c version is, for obvious reasons, more limited than its Apple IIGS counterpart, it does have certain important advantages that must be considered:

- Because the addressing space of an Apple IIe/c is smaller than an Apple IIGS, and the ToolBox is not required for floating point calculations, programs written under the Apple IIe/c version can sometimes execute several times faster than their Apple IIGS counterparts.
- The Apple IIe/c version is somewhat more compatible with Applesoft. This allows you to compile some additional programs written under Applesoft. For example, Applesoft Shape Tables are supported on the Apple IIe/c version.
- Most important of all, programs compiled under the Apple IIe/c version will run on virtually any Apple II or Laser. Having both versions of *Micol Advanced BASIC* allows you to have software that takes advantage of the power of the Apple IIGS as well as having software that runs on most any Apple II.

For this mailing, if you order the *Micol Advanced BASIC* 5.0 upgrade, you may also order *Micol Advanced BASIC* for the Apple IIe/c, Version 4.5, complete, for only \$49.95CDN plus \$5.00 shipping and handling (total charges of \$54.95CDN). This is more than a \$30.00 discount off its usual discounted price.

## Better Graphics Than Ever Before

The Apple IIGS certainly has some great Super High Resolution graphics, and most of you probably make at least some use of them. But, as good as these graphics are, wouldn't be nice to be able to do even more? Now you can.

Pegasoft of Canada, an independent Apple IIGS software developer, has really improved on the usual Super High Resolution graphics by creating a Tool called DrawTools 3.1. DrawTools 3.1 consists of about 100 Super High Resolution Tools that can be called from *Micol Advanced BASIC* by means of the **TOOLBOX** command. Although Micol Systems had no hand in DrawTools 3.1's development, it seems to complement *Micol Advanced BASIC* so well, that we're offering it here.

DrawTools 3.1 Tools do various Super High Resolution functions such as screen fading, setting border colours and colour blending. But the most impressive feature, I believe, is animation. Moving graphics shapes within a graphics screen, giving the illusion of motion, can be a valuable addition to any graphics display. One demo program supplied on disk, written in *Micol Advanced BASIC*, shows a shape gliding randomly across the screen. Another demo shows musical notes that "dance". According to the documentation, you can animate up to 16 objects at one time.

The DrawTools 3.1 manual consists of about 70 clearly written pages, giving examples of most Tool calls in *Micol Advanced BASIC*. It would have been nice if Apple's ToolBox manuals had been so written. In addition, DrawTools 3.1 comes with a complete set of *Micol Advanced BASIC* **ALIASES** that make the necessary

Tool calls easier. There are also numerous example programs on disk written in *Micol Advanced BASIC*. You may even include, for distribution, these Tools free of charge with anything you write in *Micol Advanced BASIC*.

The price of the DrawTools 3.1 package is only \$44.95CDN plus \$5.00 shipping and handling (total charges of \$49.95CDN). Order directly from us, and the package will be shipped directly to you by Pegasoft, who will also be supporting it.

**Important Note:** Micol Systems is acting solely as a sales representative for Pegasoft of Canada and therefore cannot assume any legal liability for DrawTools 3.1. It needs to be said, however, that in my dealings with Pegasoft of Canada, I have found them to be very responsive to suggestions and complaints.

## Reduced Price For The Micol Advanced Utilities

If you order the *Micol Advanced BASIC* Version 5.0 upgrade, you can get the *Micol Advanced Utilities* for only 19.95CDN (we will pay the shipping and handling). The *Micol Advanced Utilities* were written by the author of *Micol Advanced BASIC*, entirely in *Micol Advanced BASIC*. With every order of the *Micol Advanced Utilities*, you will get the source code to the *Micol Advanced Utilities*, free of charge. This is a very good way to learn structured programming under *Micol Advanced BASIC*, as well as having a powerful disk utility and calculator package.

This special price applies to this mailing only. Thereafter, the *Micol Advanced Utilities* will revert to its original price of \$29.95CDN.

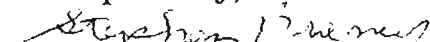
## Special Bonus Offer

Order any combination of three items or more, and we'll automatically include, at no extra charge, the *Micol Advanced BASIC* for the Apple IIGS Demonstration Disk, complete with source code files. As you might imagine, this demonstration disk is designed to show off the most impressive features of *Micol Advanced BASIC* and contains valuable examples of Super High Resolution graphics and sound. In the past, we've charged \$14.95 for this disk; now it's yours absolutely free of charge.

## Order Today

This offer will remain valid only until 15 November, 1993, so don't delay. For fast credit card orders (Visa and MasterCard accepted), or for additional information, call (416) 495-6864 during normal business hours (ET). Or use the handy order form and return envelope for orders through the mail. Personal cheques gladly accepted. Please add applicable PST and GST. All orders shipped promptly by first class mail. Order today. You won't be disappointed.

Respectfully;

  
Stephen Brunier  
President

P.S. I wish to thank those of you who responded to our last mailing.

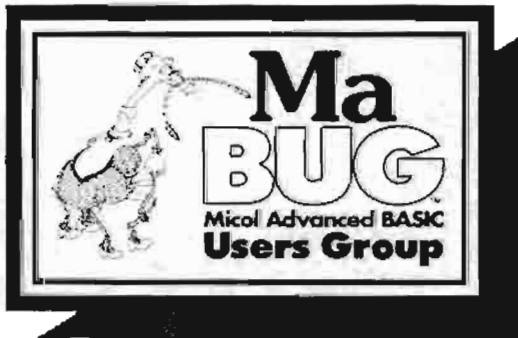
Elmhurst, IL 60126  
107 E. Vallette #1316



NAME (Please Print) \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_

Place  
Stamp  
Here

**Open this only if you're  
*serious* about your BASIC!**



107 E. Vallette #1316  
Elmhurst, IL 60126



**“A Users Group Designed for the Apple II BASIC Programmer”**

*See Inside for more information!*



**M**icol Advanced BASIC Users Group is designed to facilitate communication, problem solving, technique development, and education among its members as well as the general BASIC Programming community at large.

**A**t Ma Bug™, we are committed to the development, growth, and nurturing of the BASIC Programmer. The Professional and Hobbyist BASIC Programmer is on the rise in the Apple II world, but products and services to support that community have not kept pace. It is our goal to keep each individual in tune to that community and its members around the world.

**B**y sharing ideas, techniques, problems and their solutions, the BASIC Programmer can learn and grow. Learning from the trials of other programmers, the BASIC Programmer can hone his or her skills with the utmost confidence.

**S**o, join The Micol Advanced BASIC Users Group, and share in the experience of professionals and hobbyists from around the world!

As a member of the  
**Micol Advanced BASIC  
Users Group,**  
you will receive:

- ✓ Advanced notice on any and all upgrades to the Micol product line
- ✓ A central source for information, techniques, and problem solving
- ✓ Monthly Technical Notes
- ✓ Discount on the MaBug PD & Shareware Source Code Library
- ✓ Discounts on Third Party products and services
- ✓ Notification of any bugs, with work arounds
- ✓ Input into possible modifications to the Micol product line
- ✓ A tie in to the larger BASIC programming community, world wide
- ✓ And the confidence that your problem may already have been solved!

Membership is only \$45.00.  
\$65.00 US for overseas.

The Micol Advanced BASIC Users Group is an independent organization.

Tear along dotted line and return this portion

NAME (Please Print)

ADDRESS

COUNTRY

POST CODE

COMPUTER

MONITOR

RAM

HARDDRIVE

FLOPPY DRIVES:

5.25" 3.5"

How long have you been programming the Apple II?  
 <1yr     1-3 yrs     4-7 yrs     8+ yrs

How long have you been programming in MAB?  
 <1yr     1-3 yrs     4+ yrs

What kind of programming do you do?

Do you belong to a Network?     Yes     No  
 If so, what is your E-Mail address or Online name?

— America Online: \_\_\_\_\_

— GEnie: \_\_\_\_\_

— CompuServe: \_\_\_\_\_

— Other: \_\_\_\_\_

Our addresses are:

America Online: MaBug  
 GEnie: MaBug  
 CompuServe: 73760,721

Please tell us what services you would like to see  
 MaBug offer in the future.

Yes! I would like to join, here's my check! (Sorry, Credit Cards not accepted.)

1 year membership, \$45.00  
 ( \$65.00 US for overseas)

2 year membership, \$75.00  
 ( \$100.00 US for overseas)

No. I would not like to join right  
 now, but please place me on your  
 mailing list.

# Toolbox Library

CodeSmith™ Software has one goal: To provide the means for the experienced and novice programmer to access the Toolbox with ease.

To this end, CodeSmith™ Software is proud to announce a series of Procedures and Functions that help make dealing with the Apple IIGs™ Toolbox a lot easier to use and learn.

The 'CodeMaster Collection' provides a method for learning the Toolbox without having to spend a year and a half studying just the essentials!

The majority of the Library routines are written in Microl Advanced BASIC™ for the Apple IIGs™, providing a complete interface to nearly every Tool Call.

These Procedures are not the actual Apple IIGs™ Toolbox routines, but are Microl Advanced BASIC™ Source Code Procedures that access the Apple IIGs™ Toolbox. Each Procedure is fully commented to help learn what each Call does, what it says it needs, and what it really needs to work properly.

Some files contain Microl Macro™ assembler LINK files to access a particular Tool Call. Microl Macro™ not required.

All Volumes are not currently available.

All Tool Sets are not currently available.  
Microl Advanced BASIC is a trademark of Microl Systems, Inc. - CANADA  
The Apple IIGs is a trademark of Apple Computer, Inc.

## V1

EVENT MANAGER  
MEMORY MANAGER  
MISCELLANEOUS TOOLS  
QUICK DRAW II  
TOOL LOCATOR

## V2

CONTROL MANAGER  
DESK MANAGER  
DIALOG MANAGER  
FONT MANAGER  
LIST MANAGER  
MENU MANAGER  
QUICK DRAW II AUX  
STANDARD FILE OPERATIONS  
WINDOW MANAGER

## V3

APPLE DESKTOP MANAGER  
INTEGER MATH TOOLS  
PRINT MANAGER  
RESOURCE MANAGER  
SANE  
TEXT EDIT MANAGER  
TEXT TOOLS  
VIDEO OVERLAY TOOLS

## V4

ACE TOOLS  
NOTE SEQUENCER  
NOTE SYNTHESIZER  
MIDI TOOLS  
SOUND MANAGER

Tear along dotted line and return this portion

Take advantage of the CodeSmith's 'CodeMaster Package Subscription'.

It works like this. Four times a year CodeSmith Software will issue a CodeMaster Package Disk of Procedures and Routines for Tool Calls. By the end of the subscription period, the CodeMaster Package Subscriber will have received Procedures for all of the Tool Calls contained within GS/OS version 4.0. Then, if the subscription is renewed, Procedures for the newer Tool Sets from the current versions of GS/OS will be sent.

This will keep you up-to-date on the CodeMaster Toolbox Procedures, without the trouble and expense of having to order each Volume as they become available.

For a limited time, all subscribers will receive a one year membership to the Microl Advanced BASIC Users Group, a \$45.00 value.

To order, please mark your selection.

The CodeMaster Collection: Toolbox Library

- Volume 1: The Big Five \$49.00
- Volume 2: DeskTop \$49.00
- Volume 3: Specialists \$69.00
- Volume 4: Audiophiles \$49.00

or

- CodeMaster Subscription \$175.00

Subtotal \$ \_\_\_\_\_

Illinois Residents, add 6.75% tax \$ \_\_\_\_\_

Shipping, add \$9.00  
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