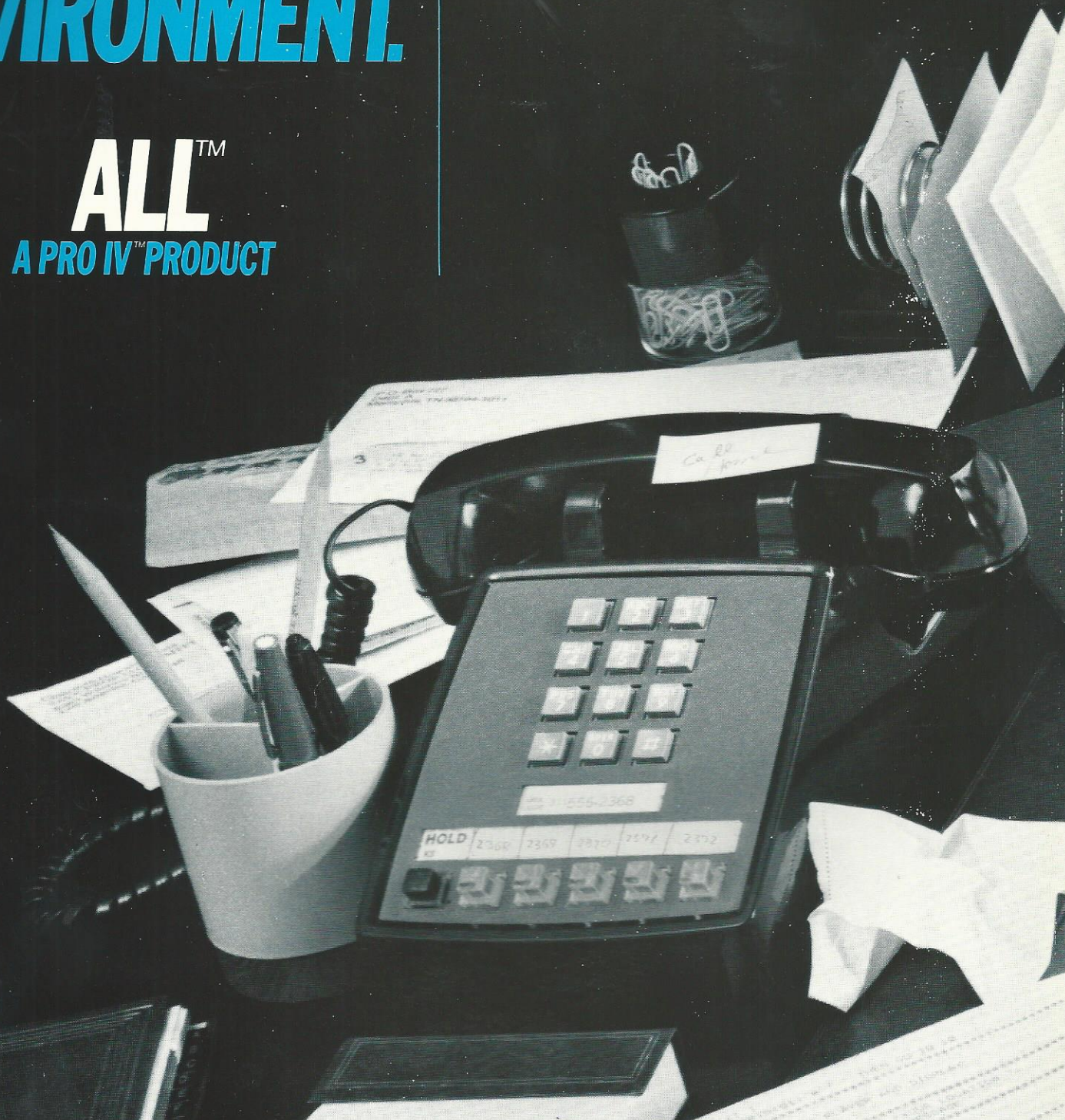
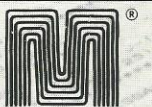


SIMPLIFY YOUR PROGRAMMING ENVIRONMENT.

ALLTM
A PRO IVTM PRODUCT



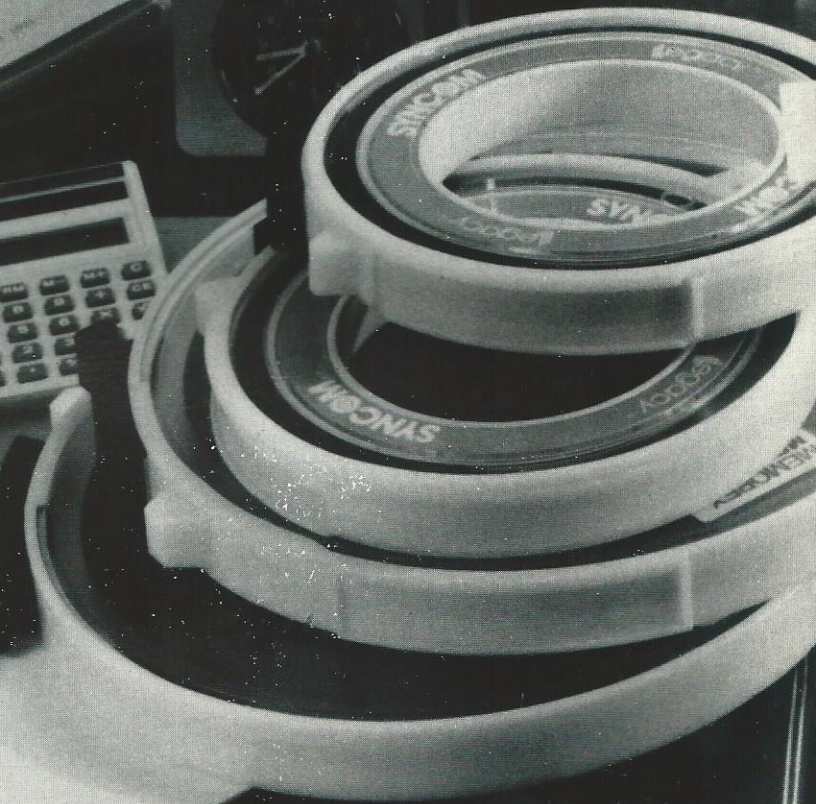
Microdata
SIMPLY POWERFUL





30 Friday March 1981 30
Order from M. J. Data Disks

Open binder with multiple pages of text, including a large table with columns and rows of data.



Several sheets of paper with faint, illegible text and lines, possibly a form or document.



NOW YOU CAN CUT DEVELOPMENT TIME OF COMPLEX APPLICATIONS FROM MONTHS TO DAYS.

ALL lets you make dramatic improvements in programming productivity. You can create new applications in a fraction of the time it used to take with conventional coding. Those are the results of actual benchmark tests comparing the time to develop a working application with ALL, and the time to develop the same application with COBOL.

	10	20	30	40	50	100	200	250	280
A	Microdata system with ALL								
B	Microdata system without ALL.								
C	Conventional system with COBOL								

Time taken to develop a working application. Test A (Microdata system with ALL), Test B (Microdata system using PROC. ENGLISH* SCREEN PRO. BASIC), Test C (Conventional processor using COBOL)

HOW ALL WORKS FOR YOU.

ALL makes your systems analyst's job a lot easier by organizing applications development into a series of clear, menu-guided steps.

CREATING YOUR DATA FILES.

First, the programmer enters parameters at the keyboard. Using ALL generation screens with menus, the user creates files and field names for the application, and defines the application function, including security provisions. Then the programmer defines the screen layout, including text position and variable position by field name.

DEFINING SCREEN CHARACTERISTICS.

The next step is to define screen characteristics for your application. Each screen can have different properties, related to files involved, modes allowed and the specific number of rows in the display. ALL provides up to nine logical screens per display, including a "scrolling" capability. This makes it simple to implement multi-screen applications to provide efficient computer utilization.

Then, logic routines, if necessary, are defined. ALL applications can perform calculations, and conditional and procedural logic on data for greater application flexibility.

THE LAST STEP IS AUTOMATIC.

The ALL generator routine creates the link tables necessary to execute the application and automatically provides simple, logical error-checking and COMPLETE documentation. And modifications are as simple as entering the appropriate changes in specifications.

HOW ALL CAN HELP YOUR BUSINESS.

- Fortune 1000 companies—meet the needs of a wide range of customized applications in a diverse environment.
- Small businesses—retired changes and enhancements take place in a timely basis as business needs grow.
- OEM System House—cut your application development and maintenance time dramatically.

YOU'LL NEVER GO BACK TO CONVENTIONAL PROGRAMMING.

ALL is the fastest way to create application software ever developed. Once you see the ease of fourth generation software development, you'll never go back to conventional approaches again. What's more, ALL is just one of the powerful features that makes Microdata systems the most productive you can own. Recognized internationally as the leader in data base management systems, Microdata was named the most preferred system by users themselves in the most recent, in-depth survey by DataPro.*

Let us team up the most powerful data base management system and software to solve your problems. Simply.

Call your Microdata representative for an ALL demonstration today. *1983. DataPro Survey.

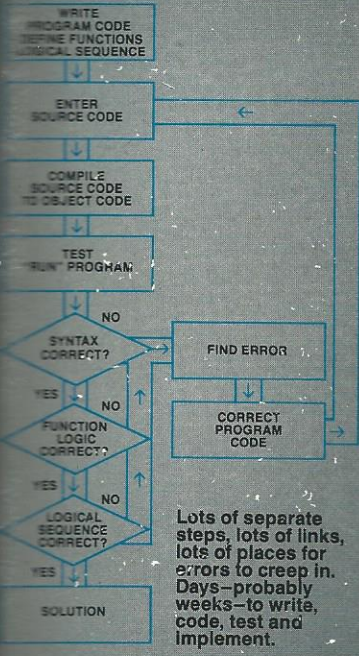
ALL PROGRAM FEATURES:

- File structuring
- Dictionary definition
- Menu generation
- Input screen formats
- Update processing
- Conditional and arithmetic logic functions
- Full system documentation

WHAT ALL GIVES YOU:

- Increased productivity—development, modification, maintenance
- Reduced cost
- Structured approach
- Enforced standardization
- Optimized equipment performance
- Automatic documentation

TRADITIONAL METHODOLOGY

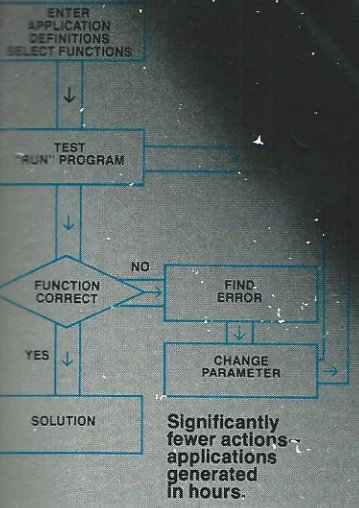


1/21/83 MIC/SYS/01
MICRODATA ALL GENERATOR

1. FILE DEFINITION
2. DATA DICTIONARIES
3. CREATE FUNCTION*
4. MODIFY FUNCTION*
5. DOCUMENTATION
6. UTILITIES
7. SYSTEM SECURITY
8. SYSTEM LOGOFF

*menus, screens, reports and updates

ALL METHODS



CREATE APPLICATIONS QUICKLY AND EASILY.

Around the office, your applications development personnel are probably the busiest people on your staff. The time it takes to create, document and customize each application is greater than the time available to meet the steady growth of requests for new applications.

That's why Microdata has introduced ALL™, a Pro IV™ Product, a fourth generation applications generator. ALL is the productivity tool designed to help you create, maintain and document business applications in a fraction of the time of conventional programming techniques.

It's menu-guided for speed and simplicity. Your programmers start with a sequence of choices—not a blank screen. What's more, ALL's structured approach provides a powerful tool for standardization of your applications programs. So today's programming solution is not tomorrow's Rubik's cube.

THE PROGRAMMING HELP YOU NEED TO GET THE JOB DONE FASTER.

Whether you need a new inventory system, customized for your particular industry. Or a general ledger tailored to your needs. Or just the flexibility to create or customize simple data base management applications for any problem. ALL helps you put your data base to work for you. Without costly delays. And without exceeding your budget by using highly-trained systems personnel.

REDUCE PROGRAM MAINTENANCE TIME.

Program updates and modifications are accomplished easily. A short definition session handles it all: menus, screens, updates, reports and revised documentation. That frees your programmers for the really creative part of their job – meeting the new applications needs of your business.

GENERATE DOCUMENTATION AUTOMATICALLY.

ALL's unique documentation capability allows you to build your system documentation as you build your application. Screen and report imaging, file descriptions and operator instructions are created as you work. So your documentation is always up-to-date.

THE TOTAL SOLUTION TO YOUR APPLICATIONS BACKLOG.

ALL was developed in the software service industry—where customizing a wide-range of applications and systems is a day-to-day problem. Designing an efficient tool to provide new applications, documentation and debugging was a crucial hurdle. That's how ALL was created. It provides an interface between the programming code and the programming application problem. ALL automatically links subroutines from a library of program modules. And provides a standardized programming architecture with the convenience of a menu-guided interactive terminal.

Now you can make the job of creating new and customized applications on your Microdata computer system simpler and faster than ever before. With ALL from Microdata.