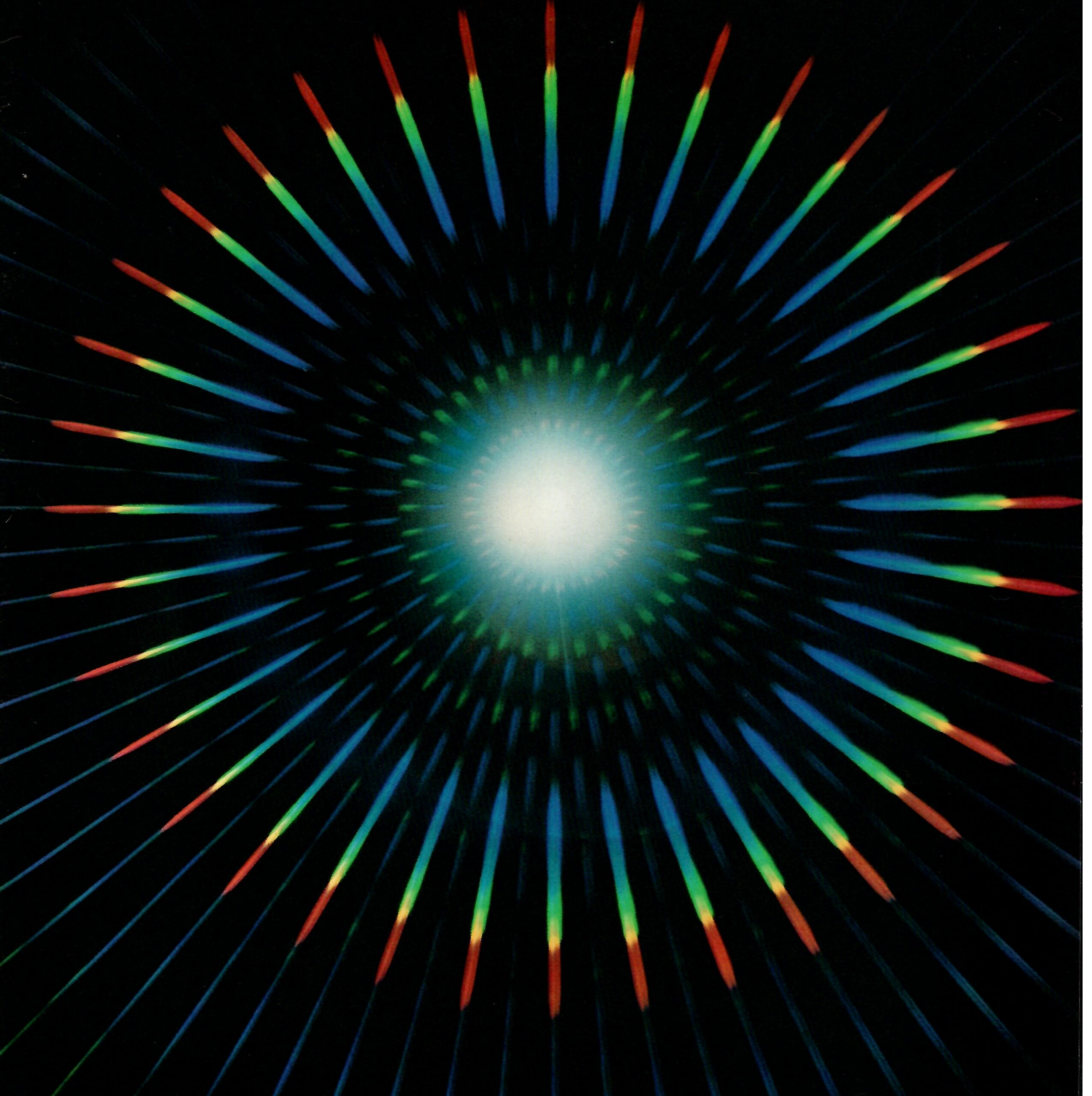


CB80™ Business Compiler



Compiler Systems, Inc.

Business speed

The Progression of Accuracy

Accurate accounting capability has been a big hole in the microcomputer business market. In traditional binary approach, figures like $1/3$ or $.333$ can not be accurately represented in the base 10 system. But your customers need books which balance to the penny. Double precision binary does not eliminate the problem. The solution is CB80 with its decimal processing to 14 significant digits. The old binary approach is quickly passing — by end user demand.

CB80's dynamic range of numbers is far greater. They're stored as packed decimal digits with an exponent which indicates decimal point placement. This enables larger numbers for precision beyond double or even triple precision.

Execution speed of double precision binary is virtually the same as our 14 digit floating point. And memory requirements are identical.

Our format benefit is a real time saver. Since our numbers are already expressed as decimal digits, they are much easier to convert for printed output than are binary representations.

When you sell your products, it's always easier to sell what people already want, what people already need; and if you're the only one selling it, so much the better. Since the business community has always used decimal arithmetic for commercial applications, CB80 is a natural choice to give microcomputer applications the "big" computer accuracy.



Your Competitive Edge

Share of market is largely affected by your ability to sell customers solutions with respect to your competition. Your ability to capture increased market shares is affected by the speed at which you can enter new markets. We also know how expensive development time is. It's an investment. But it's also non profit down time. Further, you need to inform prospects of your new products' availability. We minimize development delays and maximize your products' exposure by providing important developmental aids and significant marketing help.

Our developmental aids constitute an array of resourceful time-to-market accelerators. Many of them will amaze you, especially when you sit down with CB80 and embrace its potential for you.

Data base management is easier with CB80's file manager than with any other such tool in the industry. It includes stream I/O capabilities, and records fixed to any length you choose; sequentially accessed, or randomly accessed. Random files may be sequentially read. Up to 20 files may be open at one time. As records are read, values in the files are automatically assigned to variables.

Your customers' main interface with your product is its data base. That's why we invested the man years perfecting CB80's file manipulation techniques. Special enhancements let you read or write individual file characters. This simplifies building data base indexes. Adding records at the end of a file to update it eliminates the need to make a copy of that file. This maximizes use of disk space. Dynamically allocated buffers minimize the impact on available string space. Large records are automatically processed in 128 byte sectors, further minimizing storage overhead. Considering the limited address space of 8-bit processors, these measures significantly add to your product's power. You may override this default buffering and specify larger buffers for given files when desired. Powerful file accessing is the key to profitable entrance into vertical application markets.

String processing is crucial to businesses. CB80 has allowed strings 32,000 bytes long. In perspective, others on the market allow 255 byte strings. String processing is facilitated by dynamic memory allocation. This provides as much memory as you need, without problems from some predefined limit. Overall system throughput increases with CB80's string handling capabilities. A match function, analogous to global search, finds designated patterns within strings; wild card substitutions are permitted. Our implementation provides unusual power at this level.

Chaining automatically overlays programs during execution. It's used when you can't fit a program into memory. Between programs, you may pass variable information like a customer's name, the date, etc. But these variables, located in a COMMON area, remain intact when you chain in a new program.

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Superior Flexibility

Extensive program comments may be added, or source statements may be indented to show your program's structure, without a penalty in execution speed.

Descriptive words, as well as any real or integer number, may be used for line designations. Of course labels are never required. Elimination of line numbers on each statement makes the flow of program control much more evident.

A multiple line function or subroutine capability with multiple parameters is provided by CB80. Parameters are local only to that function. Besides that, you have the option of declaring the function as external, belonging to an entirely different program module which is linked in. Your call not only executes the routine, but it passes parameters to that new routine. This allows your programs to be developed in modules, tested, then linked with other programs.

A versatile INCLUDE directive permits source code to be included from another file during compilation. Such INCLUDES may be nested six deep. This allows installation standards such as file definitions to be written once and used by all programmers. Your ability to extend CB80 statements over many lines, allowing arbitrary complex statements, significantly improves the scope of your IF, THEN, ELSE constructs. It also makes the source code significantly more maintainable. Most BASICs limit a statement to an arbitrary number such as 255 characters.

A comprehensive library of subroutines supports our compiler. Over two man years were spent developing and testing these routines to ensure reliable and rapid execution of your programs. When you include portions of this library in products you market, a single, nominal, annual fee is charged, without regard to how many of your products are sold.

Balanced Support

We accelerate the processes which generate your success. Almost by definition, support you receive must be balanced in terms of new business practices, your technical currency, and sales/market opportunities. We're committed to maintain the following level of support for our CB80 customers.

CB-Seminars feature CB80's technical aspects, legal pointers, practical business problem solving, market advice, and tips on generating sales. Depending on attendees' composition, some seminars are for those entering the industry; others are advanced courses.

CB-Newsletters to our customers are concise, informal, time critical briefs about relevant product notices, marketing news, and "Customer Bulletins" (CB's), which include write-ups, program requests, plus notices by you and your colleagues. CB-Newsletters are also used to offer customer discounts on new products. Publication is on an as-needed basis.

Sales leads for your products are generated by our Compiler Systems Software Directory of firms producing CSI based products. Each of your products is described in detail, including any special requirements for its use. Circulation is worldwide, and this service is at no cost to you.

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CB-Hotline service answers technical questions over the phone, from 10:00am to 4:00pm Pacific Coast time.

CB-Techletter service takes longer than Hotline, but is for more in-depth situations. Solutions to users' problems of general interest are explained in detail. Techletters often solve problems before they impact your staff.

Sales exposure to our world market base is enjoyed by all CSI customers. As we seize new distribution opportunities and maintain established ones, we always share with prospects what you offer.

Documentation for CB80 is well organized and clearly expressed. To further explain how statements should be constructed, syntax diagrams are included. CB80 is similar to English. So we prepared this material with semantic considerations in mind. Great attention has been devoted to detail, including esthetics and book-type binding. Once you are familiar with CB80, our reference card provides quick access to key points.

Your Market

The 16-bit versions of CB80 are being designed at our Research & Development Center in Hawaii. That your CB80 code investment shall be useful in the 16-bit market is more than a plan; it's our commitment. Your product line expansion and associated market expansion may be realities sooner than you expect. CB80 is your entree for bigger and better things, and for the economic future of your business.

You need people who can productively program today. Software development is people intensive. So when you seek productivity, consider that more people have learned a BASIC than any other language. Fact: Over 4-million lines of code specifically back our CB80. These are pragmatic reasons why CB80 for your business, is smart business.

Scope of your product distribution and success go hand in hand. The wider the better. With CB80, your products will have added exposure. Domestically, our distribution channels are impressive. Offshore, we are strong in Australia, Germany, England and Japan.

Growth projections of user demand for business software and systems range from mildly staggering to science fiction numbers.

What does "now" have to do with your business? You have to profit now. You have to sell now. You have to expand now—just to remain competitive. We're here to help. We're the catalyst. You may justly consider our whole corporation a tool, when if properly used, will yield unprecedented results for you. Your call to our marketing group, now, could start those results in motion for you. For pricing and pertinent details call (213) 355-4211, or write: Compiler Systems, Inc., P.O. Box 145, Sierra Madre, CA 91024.

is tested across a broad spectrum.

Introduction

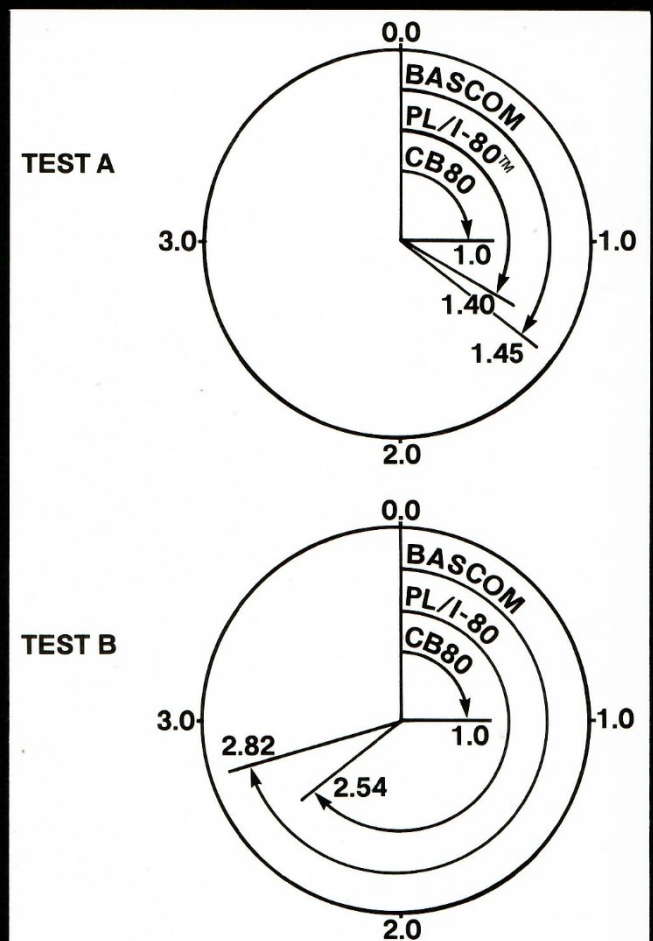
Worldwide market acceptance of the CB80 business language underscores demand for its critical capabilities which follow.

CB80 is a direct enhancement of our popular CBASIC™. Though more than 30 improvements evolved, CB80 remains compatible with CBASIC. It's a highly structured native language compiler. The code is relocatable, and links with other CB80 and assembler programs.

Speed is the most obvious change. CB80 program calculations are five to ten times faster than the parent version. This makes CB80 the fastest microcomputer business language.

Your increased sales depend upon satisfying the universal needs for both expanded language capabilities and faster execution. CB80, as your primary production tool, unquestionably delivers both.

Your market share can increase with CB80 because you can quickly and easily modify your initial product offering to accommodate multiple markets. Besides line expansion, product distribution and market exposure are important factors. Compiler Systems, Inc. maintains a strong posture of umbrella support for its CB80 customers, as discussed later in this brochure.



Test A: Program looping, a fundamental element in all programs.

Test B: Euclid's algorithms on consecutive Fibonacci numbers—superior integer arithmetic calculations.

These tests, part of a series conducted by the Softron microcomputer contracting and consulting firm, illustrate CB80's inherent strength in execution speed. Write to us for a full report of test results.

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CB80 spoken here.

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