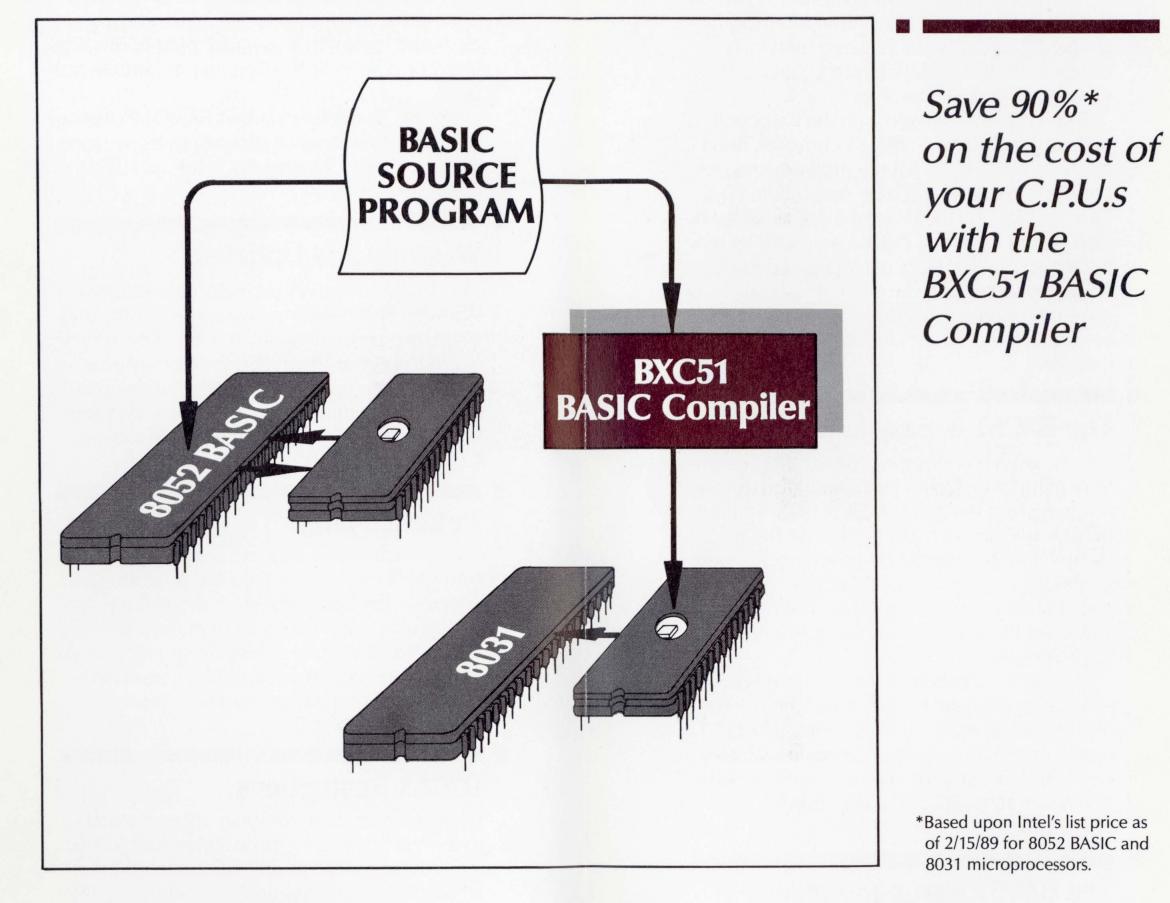
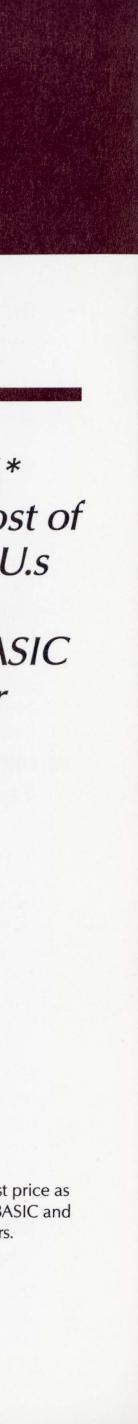


BASIC COMPLER STREAMLINES STREAMLINES MICRO-CONTROLLER APPLICATIONS



BXC51 BXC51 is a BASIC compiler for the 8051 family of processors.





The BXC51 is aimed at helping engineers and programmers develop 8051 systems quickly, easily and inexpensively.

BXC51 is a BASIC compiler for the Intel MCS-51[®] family of processors.

Prior to the introduction of the BXC51 compiler, system designers had to resort to assembly language, 'C', and/or PLM-51 when their systems outgrew the BASIC-52 interpreter; costly and time-consuming alternatives.

This has been changed with the introduction of Binary Technology's BXC51 compiler. BXC51 reads your BASIC-52 source program and outputs an 8051/8052 machine code file in "Intel Hex" format. You then have the option of downloading this file into a PROM programmer, an In Circuit Emulator (ICE), or a monitor/debuggerequipped target system.

An intermediate assembly language file can be produced allowing additional optimization if desired.

The BXC51 is Easy to Use

Start by writing your own program with a nonformatting text editor or by capturing an existing program from the 8052 BASIC CPU with a terminal emulator such as Kermit. Use BXC51 to compile the program; a one-step process with no linking required. Download the resulting hex file into a programmer, plug the programmed PROM into your target system and you're done!

The BXC51 supports in-line assembly code eliminating the need for the complicated assembly interfacing required by the Intel BASIC-52 interpreter. With BXC51, just include an '\$asm'' command, insert your lines of assembly code, and return to BASIC using the ''\$basic'' command.

The BXC51 Saves You Money

The BXC51 saves you not just time but real dollars! Your program will now run 2 to 10 times faster and you can save 90% on the cost of your CPUs by using the 8031 in place of the 8052BASIC chip (based on Intel's list prices as of 2/15/89).

Another advantage of using the BXC51 compiler is that the source for your painstakingly developed program is now protected from being listed or otherwise divulged to non authorized users.

The BXC51 adheres to Intel's BASIC-52 language standard. It includes all statements, expressions, string operators, extensions, interrupt handlers, real-time clocks, etc.

Warranty and Updates

The BXC51 comes with a 30 day defective media warranty. Binary Technology makes no warranty regarding merchantability or suitability for any specific purpose. Binary Technology will provide you with free updates within the 30 day period with subsequent updates available for a fixed rate of \$50.00 each. Site licenses are available. Call for details.

Returns Policy

Binary Technology software products are not returnable once the seal on the program disk envelope has been broken. If the seal has not been broken and you wish to make a return, contact our customer service department within 10 days of purchase for an RMA (Return Merchandise Authorization) number. There is a restocking fee of 10%.

BXC51 Restrictions:

Because the BXC51 compiler adheres strictly to the Intel BASIC-52 language standards, external RAM for the BASIC stack is required in all hardware configurations.

8052/8032: BXC-51 compiled code supports all BASIC-52 statements except for the PROM programming "PGM" routines.

8051/8031: No serial printer support; BASIC

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"PRINT#", and "PH1.#" statements are redirected to the console serial port. (Uses TIMER1 for the console baud rate generator).

8751/8752: Supports "PGM" routines. Although the code generated by BXC51 can be put in the internal ROM of an 8751 or 8752, it still requires external RAM for the BASIC stack.

Note: BASIC commands such as RUN, LIST, PROG, etc. have no meaning in compiled code and are not supported.

General

Binary Technology has been producing Intelbased microcontroller products since 1982. Our products cover a wide range of hardware, firmware, and software applications aimed at helping engineers and programmers develop 8051 systems quickly, easily and inexpensively.

Pricing and Ordering Information

The BXC51 is \$295 and is available for PC-DOS and MS-DOS based systems with a minimum of 256K of RAM, at least one floppy disk and DOS 2.0 or later.

Included with the BXC51 is Binary Technology's SXA51 cross-assembler and full documentation.

Orders are generally shipped within two days of receipt of order with UPS and Federal Express being the usual method of shipment. Other arrangements are available. Binary Technology will ship COD, with prepayment, VISA, Mastercard or on a purchase order to companies who have established credit with us. Payment in US funds only.

To order by VISA, Mastercard, or COD, call

603-469-3232

or send your personal check, money order, or purchase order to: **Binary Technology, Inc.** Main Street, PO, Box 67

Main Street, P.O. Box 67 Meriden, NH 03770

COMMAND SUMMARY

BAUD Set baud rate for printer port. (8751/8051/8031 only) CALL Call assembly routine by address CLEAR Clear all variables, arrays, and interrupts CLEARI Clear all interrupts CLEARS Clear stack space **CLOCKO** Turn real-time clock off CLOCK1 Turn real-time clock on DIM Dimension an array DO..UNTIL Loop until a certain condition arises DO..WHILE Loop while a condition is true END Halt program execution normally FOR...NEXT Loop with an index variable a finite number of times GOSUB..RETURN Call a BASIC subroutine GOTO Jump to another line of BASIC IDLE Wait for an interrupt to occur Conditionally execute a statement IF.THEN..ELSE INPUT Input information from user LD@ Push a floating point value on the stack from memory LET Assign an expression to a variable ONERR If a program error occurs, call a BASIC subroutine ONEXT1 If external interrupt 1 occurs, call a BASIC subroutine ON GOSUB On an index, GOSUB a BASIC line number ON GOTO On an index, GOTO a BASIC line number ONTIME If a timer interrupt occurs, call a BASIC subroutine PGM Program an EPROM (8752 only) PH0. PRINT, outputting numbers in hexadecimal PH0.@ PH0. to a user defined output driver PH0.# PH0. to the list device* PH1. PRINT, outputting numbers in hex with leading zeros PH1.@ PH1. to a user defined output driver PH1.# PH1. to the list device* POP Pop value(s) off the top of the floating point stack PRINT Output text, numbers, and strings to console device PRINT@ PRINT to a user defined output driver PRINT# PRINT to the list device* PUSH Push a value on the floating point stack PWM Pulse width modulation **READ..DATA** Read a value from a DATA statement with expressions REM A comment RESTORE Mark all DATA as unread RETI **RETURN from ONTIME or ONEXT1** ST@ Pop a value off floating point stack to memory STOP Abort program execution with a message STRING Allocate string storage space Turn off user defined console input routines UIO Turn on user defined console input routines UI1 Turn off user defined console output routines UO0 Turn on user defined console output routines UO1

*For 8751/8051/8031 CPUs these commands are redirected to the console serial port.

