

# NEWJUG 99ER'S NEWS

## AUGUST 1993



GEE DAD, THESE USER GROUP MEETINGS SURE ARE GREAT...

POSTAGE WILL BE PAID BY ADDRESSEE

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FROM:

NEWJUG 99ER'S UG  
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POSTAGE  
GOES  
HERE

TO:

AFFIX MAILING LABEL  
HERE



# Hacking in c99



BY JOE ROSS

Last month I explained the process by which a c99 source file becomes an Ed/Orm option #3 executable program. This month I will start explaining the basic structure and components of a c99 program. When possible I will try to relate the c99 structure to Extended Basic syntax and/or examples. As I go over various items in c99 source examples I will explain them through the use of comments next to the source statements. Comments in the C language are contained between a slash/asterix to open the comment and asterix/slash to close the comment. The verbage in a comment is the same as in a REM statement in BASIC and is not compiled or executed. An example of a comment is as follows: /\* This is a comment \*/.

An advantage of programming in C is that it lends itself well to structured programming techniques, forcing you to think of functional modules or blocks of code with a specialized purpose. A C program is little more than arranging these modules (functions) to perform the overall task of the program. A function in C can be compared to a subroutine or more properly subprogram in Basic in that the program breaks its sequential processing, branches to the subroutine and executes the subroutine, then returns back to the program to execute the next instruction. The function may require parameters to be passed to it as in a Basic subprogram. Examples in Basic of a function would be any Basic command such as CALL HCHAR(1,1,42,768). The Basic program would pass the parameters to HCHAR, execute the HCHAR subprogram and return back to the next line in the Basic program after the call to HCHAR. The syntax for calling a function in C is very similar to that of Basic. First is the name of the function followed by an open parentheses, any parameters separated by commas, a close parentheses and a semicolon. The semicolon indicates a call to the function as opposed to creating a function which I will discuss later. The following is an example of a Basic function call and a c99 function call.

```
Basic - CALL HCHAR(1,1,42,768)
c99 - hchar(1,1,42,768); /*located in the GRF1 library*/
```

Note that in c99 "CALL" is not used and the statement ends with a semicolon.

One of the first differences you will notice about the C language syntax is the use of lower case letters in writing the source code. Lower case must be used to enter the source statements. An exception which may be used is the

naming of constants with capitals to differentiate between variable and constant values (discussed later). Remember though that if you use capitals for any constant every reference to the constant name must be capitalized. Another trait of C is that the source may be entered in a free form manner as long as the statement syntax is correct. However, you should adopt some form of consistent entry for readability and debugging.

## The main() Function

The special function "main()" marks the point where a C program begins execution and is the controlling function of the program. In short, main() is the program and consists of calls to other functions. This function can be used only once in a program. Since main() does not yet exist it must be created as opposed to being called. If it were called the syntax would be - main(); To create main() you may use the following structure:

```
main()
{
    /* --- start of function */
    .....
    /* --- function body */
    .....
    /* --- end of function (program) */
}
```

To create a function enter the function name followed by open and close parentheses. In this case there were no parameters used. Underneath the first letter of the name an open brace is used to denote the start of the function followed by C statements which perform the task of the function. Last is a close brace which ends the function/program. Open and close braces are used in C to denote a grouping of related C statements and may also be used to group statements in loops and boolean test ("if" statements).

For every open brace which starts a grouping there must be a close brace to end the grouping (Examples later). In Basic one example of a grouping would be the FOR NEXT loop where all the statements between FOR and NEXT are executed as a block of related statements. Following is two small programs one in c99 and one in Basic that do the same task.

## BASIC PROGRAM

```
100 CALL CLEAR
110 FOR I=1 TO 10
120 PRINT "This is some text"
130 PRINT "So is this"
140 NEXT I
150 END
```

## 99 PROGRAM

```

main()      /* creating function "main" */
            /* start of program/function */
    int i;   /* creating an interger variable "i" */

    putchar(12); /* clear screen and home cursor */
    for(i=0; i<10; i++){ /*set i to zero, test for value*/
                        /*if test true execute statements*/
                        /*between open & close braces ard*/
                        /*increase i by one */
    puts("This is some text\n"); /* print to screen */
    puts("So is this\n"); /* ditto */
    } /* end of "for" grouping repeat loop if i<10 */

            /* end of function/program */

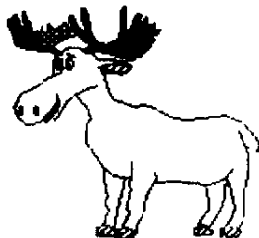
```

Functions (puts) may be called within a function (main) to build powerful functional modules. Of course, the above is a simple example. Next month I will explore the use of individual functions and more syntax of c99.



MARVIN

## SECRETARY'S REPORT



The regular meeting of the II-99/40 New Jersey User's group (NewJUG) was held at the Iselin Public Library, 1081 Green Street, on Tuesday morning, 1 June 1993.

The meeting was called to order at 7:58 pm by the President, Mr George Lytle. The minutes of the previous meeting were read and accepted as read.

The Treasurer, Mr Dan Gazsy read his report as published in the NewJUG News. The report was accepted as read.

A MOTION was made and PASSED to reimburse Mr Dan Gazsy \$29.95 for postage for the newsletter.

A MOTION was made and PASSED to reimburse the Secretary \$19.00 for postage stamps purchased.

Dues were collected. Mr Joseph F. Ross renewed his membership for 1993.

The meeting was adjourned about 8:45 pm.

Respectfully submitted,

Johan I. Nykvist  
Secretary

# Editor's Forum



BY DAN GAZSY

Each month, I start out with the best of intentions to accomplish x number of projects/tasks. Having the newsletter ready for the club meeting has always been a priority and I've been pretty good about making that commitment.

When it comes to my other priorities, I'm usually alot LESS successful. There was a time when I could allocate time to program for the machine. Now in order to do that, some other item gets ignored. This morning as I type this article, I stare down at an unopened bank statement for the club and a stack of newsletters from other User Groups. In the past, I always managed to balance the UG's account (and occasionally produce a treasurer's report for the newsletter) in a timely manner. This month it will get done, but most likely at the last minute. As for the newsletters, I generally read them, log them into our exchange database and bring them along to the club meeting. After perusing the stack, I guesstimate that process would take the better part of a weekend (something that I no longer have at my disposal). To some, this might sound like I'm playing a solo on the world's tiniest violin, but what I'm really trying to say is that we need new blood to take up the slack. I realize it's hard to attract new members to a computer that has reached it's twilight years. However, sometimes we overlook the obvious potential members (the family at home). The next time you head out the door to the next club meeting, try turning around to family members and asking if anyone wants to go with you. For some parents, this might be better received if they also mention a trip to the ice cream stand on the way home. The worst that can happen is a response of: "Get a life, DAD!".

## GG MODE AND THE

### V9938

## PART I

BY DAN GAZSY

Over the past few years, quite a few of us have purchased 80 column devices and patiently waited for the promised software to take advantage of it. For those of us that like to program in Extended Basic, Alexander Hulpke created XHI for G6 and G7 modes and X80 for Text2 mode.



and the novelty wears off, the desire to fax decreases rapidly, particularly if we still have the same old machine. (It is not unknown for jaded faxers to have a brief "fling" with a new, exciting machine, but this, too, will usually burn out quite quickly.)

- Q Can I have fax with more than one person?
- A By all means. This is perfectly normal, even necessary in most circumstances. It's time we cast aside our hang-ups about fax, feel free to "let it all hang out" and share the self with the world.
- Q Do you have to be married to have fax?
- A Good lord, no. People who hardly ever fax their wives will spend most of their working lives faxing complete strangers.
- Q My parents say they never fax when they were young, and were only allowed to write memos to each other until they were twenty-one. Is this true?
- A Yes, but why worry about boring twits like them!
- Q If I fax something to myself will I go blind?
- A Certainly not, as far as I can see.
- Q There is a place on our street where we can go and pay for fax. Is it legal?
- A Yes, many lonely people have no outlet for their fax urges and must pay a "professional" when their need becomes too strong.
- Q What are the consequences for indiscriminate fax?
- A Very high telephone bills.

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# Joke Of The Month



We spotted this classified ad in the neighborhood newspaper: "For sale, cheap! one set of Jack Nicklaus golf clubs with bag and cart; one right-handed softball mitt; bowling ball and bag with assorted trophies. Call 555-1443. If a man answers, hang up."

## WORD SEARCH

### Word List

EGGPLANT  
LETTUCE  
PENS  
GREENBEANS  
PLANTS  
FLOWERS  
TOMATO  
CABBAGE  
MUSHROOM

E	L	C	A	B	B	A	G	E	P	L	A	Q	U	E
T	G	L	P	L	A	N	T	S	E	G	D	E	R	D
O	B	G	R	R	I	G	H	T	R	I	D	E	R	E
T	R	A	P	P	E	R	I	R	I	L	E	D	I	G
O	N	I	E	L	I	E	N	O	O	S	E	G	N	U
L	T	M	A	E	A	E	K	I	D	D	I	E	E	H
R	O	S	T	O	N	I	N	I	T	I	A	L	R	
O	R	Q	F	T	T	B	T	T	C	E	R	T	Q	O
I	S	U	R	U	H	E	O	R	A	P	L	A	I	T
S	T	A	R	C	K	A	M	A	L	I	G	N	O	C
C	O	S	I	E	M	N	A	M	A	J	L	I	T	E
I	N	H	O	U	R	S	T	A	T	V	E	A	S	T
F	L	O	W	E	R	S	D	T	U	L	O	R	C	O
D	U	S	T	B	U	S	T	E	R	I	P	I	N	R
M	O	U	S	E	R	S	T	A	B	L	E	T	O	P

## TREASURER'S REPORT

Date	Description	Amount
06/01/93	Opening Balance	301.27
	Money In	
	Membership Renewal-Joe Ross	15.00
	Disk Purchase	2.00
	Subtotal	318.27
	Money Out	
	Postage - J.Nyquist	19.00
	Postage - D.Gazzy	29.95
	Subtotal	48.95
07/30/93	Closing Balance	269.32

The closing balance posted here (269.32) differs from the balance (308.02) that the bank has posted on our account. After allowing for outstanding checks, we still come up with the same difference of \$38.70. Since the error is in our favor, it's just a matter of time till the bank reconciles the account. As a result, we will continue to carry the difference until the account is corrected.

# Newsletter Exchange

This month, I discovered that there have been some mailing address changes to our exchange list. For those familiar with this column, changes and new additions are annotated with an asterisk. Please forward to hearing from any group wishing to initiate an exchange and encourage others to use this list for communication with other groups. If you know of any US (not on our list) that would like to exchange newsletters, we'd be very interested in hearing from you via the comments and suggestions on the cover page.

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16 Judith Ann Dr.  
Rinwood, NJ 07456-1863

Central Garden State UG  
61 Country Lane  
Hamilton Square, NJ 0890

LITI 99er's UG  
93 Myra Avenue  
Hicksville, NY 11801-2424

\*West Penn 99er's  
c/o Mickey Condrowki  
P.O. Box 183  
Russelltown, PA 15076

Pittsburg User's Group  
P.O. Box 8043  
Pittsburg, PA 15216

Eric 99er User Group  
2812 West 33rd Street  
Eric, PA 16506

Lehigh 99er Computer Group  
c/o Jack Zawadiuk  
719 N 12th Street

Allentown, PA 18102

MANNERS  
c/o Bill Howard  
15204 Louis Mill Dr  
Chantilly, VA 22021

Greater Akron 99er's  
c/o Jim Harris  
2022 Tenth Street  
Cuyahoga Falls, OH 44121

Lima 99/4a Users Group  
P.O. Box 647  
Venedocia, OH 45891

Great Lakes Computer Group  
P.O. Box 52  
Roseville, MI 48066-0152

Milwaukee Area Users Group  
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Wauwatosa, WI 53222

Siouxland 99er's  
c/o Bob Daggitt  
4605 Bluestem Circle  
Sioux Falls, SD 57106

Chicago TI User's Group  
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Chicago, IL 60657

Dallas TI Home Computer  
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Dallas, TX 75229

Net99er HUG  
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\*Kawartha 99er's  
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c/o Tom Jakabfy  
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Oshawa, Ontario  
CANADA L1H 8L7

9T9 User Group  
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Toronto, Ontario  
CANADA M6M 1C9

Sudbury 99er's  
c/o Jim McLaren  
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Whitfish, Ontario  
CANADA P0M 3E0

B.C. 99er Users  
c/o Ron Warfield  
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CANADA V3L 2B2

