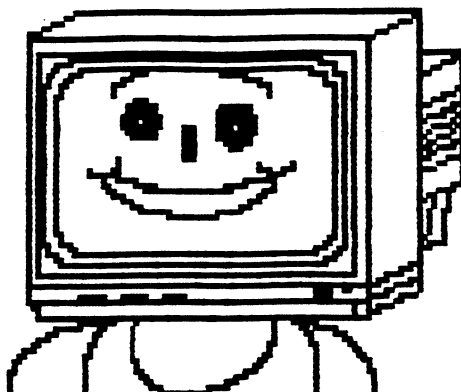COME ON
AND GET
INTO
YOUR

COCO

The Atlanta Computer Society

presents:

GET ROCKIN
AND ROLLIN

WITH "COCONUTS"

VOLUME 1 NO. 7   OCT. 1994

--------------------*
PRESIDENT'S PRINTOUT
By Ken Fish

Hi!   How ya doin'? Hello. Good
to see you! .... Sorry I was just
reliving   the good times at the
'Fest. I said hello to as many
people   as I could. I saw new
vendors and attendees, old familiar
faces, people having fun. I was
gratified to see the fest doing as
well as I expected (and hoped).
Most all of the people I talked to
said that it was a successful time,
though   sales   were   better   on
Saturday for most vendors, than
they were on Sunday. We had lots of
out of state attendees, and I found
a few new converts from the local
area! We signed up 9 new members
due to a great speacil we ran with
GLENSIDE COLOR COMPUTER CLUB. We
had some great seminars, featuring
Kevin Darling, who was unable to
attend   last   year. there   were
demonstrations   like "INSIDE CDI",
THE   COCO3 EMULATOR,   and   Rick
Cooper's COCO REGISTRY. We also had

about 90 % member   attendence. For
those of you who missed this event,
I hope the descriptions I just gave
are   enough to get you started
kicking your own tail!

One of the questions that was
raised was the plans for a future
'fest. There was even a meeting of
vendors on the future of desktop
os-9. The best answer I could give
was " I hope so, we'll see ." I
think that decision is up to the
members as a whole. I myself would
hope so. We made a decent profit,
paid   a   little   less   than   we
expected,   had more tables than
before, and a decent turnout. That
seems to justify the effort to me.
But then again, I enjoy going to a
Radio Shack where a friend works,
giving him the Bronx Cheer, and
telling him we had people still
coming in from Canada and all over
the U.S. to support this "out dated
game machine !"

To all of the new members,
WELCOME. I would like you to give
us your opinion on more fests.
Write a line to the newsletter

editor so everyone can see the opinions. All members are welcome to do the same.

To all the vendors, THANK YOU. I hope you can come back and continue your support of my favorite "toy". Your efforts are appriciated. Your 'fest specials and new efforts are one of the things I enjoy most.

-----------------*
SECRETARY'S REPORT
By Al Dages

Secretary's report of the September 1994 ACS Meeting. The meeting was called to order by the president Ken Fish, at 7:30 P.M. Ken gave a report on Fest preparations to date with much discussion on what remains to be done. He also announced that ACS would be offering JOINT MEMBERSHIPS with the Glenside CoCo Club. The arrangement would be both clubs would offer DUAL membership at a reduced price of $25.00 He pointed out that this does not constitute the merging of these two clubs but represents a joint effort to increase membership in each club! There folowed much discussion of the final stages of the FEST Pamphlet. The pamphlet will be finished by Friday morning of the fest and final assembly will be at the hotel. The pamphlet cover and general layout was shown.

Newton White presented the work schedule for the fest and
---------------*
By Carl England

asked for flexibility from all members.

Since there was no formal program for the evening, Al Dages presented a few pieces of software/hardware for sale and played his Yamaha PSS-680 demo.
The meeting was adjourned at 9:00 P.M.

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EDITOR'S ECHO
By Russ Keller

This month the SECOND article on Assembly language programing by Carl England is being printed. A new masthead is printed this month. Do you like it?

I am printing the list of members this month to give all new members a listing in case you wish to call or write them. Of course you can call the BBS when you wish.

variables for BBS

Number 404 6362991
Baud 300-9600
word length 8 bits
parity none
stop bits 1
term type tty or ascii
wait time 25

Please check your name and make sure all information is correct. Should a correction needs to be made, please write and note correction.

Modular Programming Part 2
Disk I/O

Last month we started our library of modules with two short but handy modules. One cleared the text screen; the other printed to a specified device.

This month we will add a module that will handle our disk input and

output. The module uses the documented DISK BASIC ROM call: DSKCON. It also calls one of our previously defined modules: PRINT.

Two things that you should note about this module is that (1) you receive a descriptive error message instead of the ?IO ERROR, and (2) you can see what is being input or output because the I/O buffer is the top half of the 32-column text screen.

First execute your Editor/Assembler (I am using Disk Edtasm), and enter the following module:

```
00100 **************************************************
00110 *                                                *
00120 *                 MODULE: DISKIO                  *
00130 *                                                *
00140 * PERFORMS DISK INPUT & OUTPUT                    *
00150 * MODULES CALLED: PRINT                           *
00160 *                                                *
00170 * MAIN ROUTINE MUST SUPPLY ADDRESSES:             *
00180 *      SDRIVE & DDRIVE                            *
00190 * I/O BUFFER IS ADDRESSES $400 THRU $5FF          *
00200 * ENTRY POINTS: DSKIN & DSKOUT                    *
00210 **************************************************
00220
00230 IOBUFR    EQU        $400
00240
00250 **************************************************
00260 *                                                *
00270 *              SUB-MODULE: DSKIN                  *
00280 *                                                *
00290 * READS A SECTOR INTO I/O BUFFER                  *
00300 *                                                *
00310 * ENTRY CONDITIONS: REGISTER A CONTAINS TRACK     *
00320 *                   REGISTER B CONTAINS SECTOR     *
00330 *                   ADDR. SDRIVE CINTAINS DRIVE   *
00340 * EXIT CONDITIONS:  IOBUFR CONTAINS SECTOR DATA   *
00350 **************************************************
00360
00370 DSKIN     PSHS       D          SAVE TRACK & SECTOR
00380           LDA        #2         READ SECTOR
00390           LDB        SDRIVE     GET DRIVE
00400           BRA        DISKIO
00410
00420 **************************************************
00430 *                                                *
00440 *              SUB-MODULE: DSKOUT                 *
00450 *                                                *
00460 * WRITES A SECTOR FROM I/O BUFFER                 *
00470 *                                                *
00480 * ENTRY CONDITIONS: REGISTER A CONTAINS TRACK     *
00490 *                   REGISTER B CONTAINS SECTOR     *
00500 *                   ADDR. DDRIVE CONTAINS DRIVE   *
```

```
00510 *                    IOBUFR CONTAINS SECTOR DATA *
00520 * EXIT CONDITIONS:  NONE                         *
00530 *                                                *
00540 ************************************************
00550
00560 DSKOUT    PSHS      D           SAVE TRACK & SECTOR
00570          LDA       #3          WRITE SECTOR
00580          LDB       DDRIVE      GET DRIVE
00590
00600 ************************************************
00610 *                                              *
00620 *                    MAIN MODULE               *
00630 *                                              *
00640 ************************************************
00650
00660 DISKIO    STD       234         SEND TO DSKCON
00670          LDD       #$400       GET IOBUFR
00680          STD       238         SEND TO DSKCON
00690          PULS      D           GET TRACK & SECTOR
00700          STD       236         SEND TO DSKCON
00710          JSR       [$C004]     EXECUTE DSKCON
00720          LDA       240         TEST ERROR
00730          BNE       D0
00740          RTS                   EXIT IF NO ERROR
00750
00760 D0        LDB       #250        MASK BIT 0 AND 1
00770 D1        ADDB      #2          INCREMENT ERROR
00780          RORA                  TEST FOR ERROR
00790          BCC       D1
00800          PSHS      X,U
00810          LDX       #D2
00830          LDU       B,X
00840          CLRA
00850          JSR       PRINT
00860          PULS      X,U,PC
00870 D2        FDB       D3
00880          FDB       D4
00890          FDB       D5
00900          FDB       D6
00910          FDB       D7
00920          FDB       D8
00930 D3        FCC       /LOST DATA/
00940          FDB       $D00
00950 D4        FCC       /CRC ERROR/
00960          FDB       $D00
00970 D5        FCC       /RECORD NOT FOUND/
00980          FDB       $D00
00990 D6        FCC       /WRITE FAULT/
01000          FDB       $D00
01010 D7        FCC       /WRITE PROTECT/
01020          FDB       $D00
01030 D8        FCC       /DRIVE NOT READY/
01040          FDB       $D00
```

This module actually has two entry points; one for disk input and one for disk output. Two addresses SDRIVE and DDRIVE (Source and Destination Drive) must be supplied by the main program. It is not better to have these addresses external to this module because they may be accessed by other modules.

Save this module and then enter this test routine:

```
00100 *     TEST
00110
00120            ORG      $E00
00130 SDRIVE     FCB      0
00140 DDRIVE     FCB      0
00150 TRACK      FCB      0
00160 SECTOR     FCB      1
00170 READ       LDD      TRACK
00180            BRA      DSKIN
00190 WRITE      LDD      TRACK
00200            BRA      DSKOUT
00210            INCLUDE  PRINT
00220            INCLUDE  DISKIO
00230            END      READ
```

NOTE: If your assembler does not support the INCLUDE command, then you will need to merge the routines before assembling.

Assemble this test program and then exit back to BASIC. Type in the following program:

```
10 LOADM"TEST
20 CLS
30 PRINT@256,"";
40 PRINT:PRINT:PRINT:PRINT:PRINT@256,"";
50 LINEINPUT"TRACK:   ";T$
60 T=VAL(T$)
70 IFT<0ORT>39THENPRINT"ERROR!":GOTO30
80 PRINT@288,"";
90 LINEINPUT"SECTOR:  ";S$
100 S=VAL(S$)
110 IFS<1ORS>18THENPRINT"ERROR!":GOTO80
120 POKE&HE02,T:POKE&HE03,S
130 PRINT@384
140 PRINT@320,"";
150 PRINT"rEAD OR wRITE? ";
160 I$=INKEY$
170 IFI$="R"THENPRINT"r":PRINT:EXEC&HE04:GOTO30
180 IFI$<>"W"THEN160
190 PRINT"w"
200 PRINT"ABOUT TO WRITE TO DISK...OK? ";
```

```
210 I$=INKEY$
220 IFI$="N"THENPRINT"n":GOTO30
230 IFI$<>"Y"THEN210
240 PRINT"y":EXEC&HE09:GOTO30
```

   With this program you can test your new DISKIO module. Be careful
when writing to a disk or you may wipe out valuable data. Try reading a
disk with your drive door open. Also try writing to a write protected disk
to test the error message output.

   Next month's module will read a disk directory. But in the meantime,
you may want to experiment with the modules you already have or even write
a program using them. Plus if you have some modules of your own, go ahead
and have them published in this newsletter. The more useful modules we
have on hand when we write a program, the less actual programming (and more
inportantly, de-bugging) we have to do. With the right modules, your
programs will almost write themselves.

'till next month,

NAME	ADDRESS1	ADDRESS2	CITY	ST	ZIP	PHONE	BUS PH.	COMP	PAID	TYPE
.ACS, CLUB LIST		P.O. BOX 80694	ATLANTA	GA	30366	ACS-BBS	636-2991	COCO	9999	C
ADAMS, EUGENE D.		135 LLOYD DR.	MARIETTA	GA	30066	422-3097		COCO	9507	H
BERGERSON, CHRIS		2195 PARLIAMENT DR	LAWRENCEVILLE	GA	30243	963-1316	963-1433	COCO	9507	H
BETHEA JR., GEORGE H.		1 SO. LAWRENCE AVE.	ELMSFORD	NY	10523	592-7160		COCO	9507	H
BROWN, JOHN G.		7887 LONGVIEW DR.	BRYAN	TX	77808	589-2278		COCO	9507	H
CATO, VAUGHN		1244 E. PIEDMONT RD.	MARIETTA	GA	30062	971-0193		COCO	9507	H
CORDERO, RENE		107 VANCOURTLAND PKWY 1-E	YONKERS	NY	10701	963-2642	969-6363	COCO	9507	H
DAGES, ALAN R.		4894 CANDLEWOOD LN.	STONE MOUNTAIN	GA	30088	469-5111	498-2496	COCO	9507	H
DANIEL, E. FRANK		3640 NO. COOPERLAKE RD.	SMYRNA	GA	30082	436-8967		COCO	9507	H
DAUGHTERS, WYNNE		300 WOODCHUCK COURT	ROSWELL	GA	30076	993-1651		COCO3	9507	H
DODSON, TERRY B.		8 TINGLE LANE	PALMETTO	GA	30268	463-1803	892-1988	COCO	9507	H
ENGLAND, CARL		515 CIRCLE DR.	CALHOUN	GA	30701	602-9536		COCO	9507	H
FAIR, EDWIN R.		P O BOX 484	TUCKER	GA	30085	938-9844	938-3998	6809	9507	H
FISH, KENNETH C		4589 KATHY CIR	POWER SPRINGS	GA	30073	439-5117		COCO	9507	H
FORREST, ALEX		1500 NO HENDRIX #1-C	DIBOLL	TX	75941	829-4005		COCO	9507	H
HARRIS, LARRY		1517 ASHBROOK DR.	LAWRENCEVILLE	GA	30245	682-8842	674-4281	COCO	9507	H
HOBBS III, JOHN E.		3485 DeMOONEY RD	COLLEGE PARK	GA	30349	964-4413		COCO	9507	H
HOLDER, DEAN		324 KENWOOD AVE.	WILMINGTON	NC	28405	763-6909		COCO	9507	H
HUFFMAN, ALLEN		P. O. BOX 152442	LUFKIN	TX	75915			COCO	9507	H
JACOBS JR., STANLEY E.		2805 NE EXPRESSWAY A-22	ATLANTA	GA	30345	633-9010		COCO	9507	H
KELLER, EARL R.		1900 S COBB DR APT B-9	MARIETTA	GA	30060	436-5094		COCO	9507	H
KOCOUREK, THOMAS		396 LAUREL TRACE	CARROLLTON	GA	30117	214-2201		COCO	9507	H
LITTLE JR., TRUMAN H		4897 LOU IVY RD.	DULUTH	GA	30136	448-2354		COCO	9507	H
MAGUIRE, DAN		115 URSA ST.	ORANGE PARK	FL	30273	272-3653		COCO	9507	H
McGEE, BOB		2113 GREENHILL DR	MARIETTA	GA	30060	422-6286		COCO	9507	H
McKEON, PHILLIP W.		3610 RIDGEWATER TR.	MARIETTA	GA	30068	977-8364		COCO	9507	H
PADGETT, L.E.		24 PERTHSHIRE DR.	PEACHTREE CITY	GA	30269	487-8461		COCO	9507	H
PASSIG, BOB		6558 ROSWELL RD. #4-B	ATLANTA	GA	30328	250-1938		COCO	9507	H
PHLYPO, TIM		729 S CENTER ST	GENESEO	IL	61254	944-2649		COCO	9507	H
RACHAL, HERMAN		3566 KALLAHER ST.	MEMPHIS	TN	38122	454-4912		COCO	9507	H
RUTHERFORD, BOB		#8 WOODHAVEN CT.	LUFKIN	TX	75904	632-7051		COCO	9507	H
SCOTT, STAN		BOX 146	STEELVILLE	MO	65565	775-2589	265-8918	COCO	9507	H
SEFCIK, KARL		11306 BRADY	REDFORD	MI	48239	532-0116	292-4713	COCO	9507	H
SHELL, MICHAEL		2225 MURA DR.	AUGUSTA	GA	30906	793-3606		COCO	9507	H
SHOAF, ROY		293 W. JUNCTION CT.	KENNESAW	GA	30144	928-4047		COCO	9507	H
SMITH, R.C.		542 MARTIN RD.	STONE MOUNTAIN	GA	30088	469-6601		COCO	9507	H
TODD, TERRY		117 COTTON SQUARE	LUFKIN	TX	75904	875-3455	639-1187	COCO	9507	H
WHITE, NEWTON		849 WILLIVEE DR.	DECATUR	GA	30033	325-5348	676-7384	COCO	9507	H
WILLI, TED		P.O. BOX 447	ATHENS	GA	30603	354-8422		COCO	9507	H
WILLIS, BETTY		3143 KENSINGTON RD.	AVONDALE ESTATES	GA	30002	296-5461		COCO	9507	H

RECAP:
TOTAL RECORDS PRINTED = 40
TOTAL EXPIRED RECORDS = 0
FILE LAST UPDATED 16-10-94

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ADDRESS CORRECTION REQUESTED

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SECRETARY	Alan Dages	448-7157
NEWSLETTER EDITOR	Russ Keller	436-5094
CLUB LIBRARIAN	Terry Dodson	463-1803
ACS BBS		636-2991

Next Meeting

October 25, 1994 Shoney's So. Cobb Dr. Smyrna
November 15,1994 Shoney's Jimmy Carter Blvd. Norcross