

# DATA CHIP

Issue: 35

Apr/May/Jun '83

## Newsletter of the Rochester, NY CompuColor Users Group

After the last issue of DataChip hit the street, some of our readers took interest in the Morrow Micro Decision computer, and placed orders. Although not enough orders arrived to obtain a 20% discount, several readers did obtain a 15% discount, and now are running CP/M systems using CCII's as terminals. The success of the effort is due in **large** part to the efforts of **Tom Devlin**, who designed and wrote a terminal emulation program for the CCII to handle data coming from the Morrow and display it in a reasonable way. It is through the work of people like Tom that our club is still prospering, and we can maintain a level of interest that sustains us. His willingness to lend a hand (long distance if need be), and his cooperation and sense of commitment are outstanding. Tom deserves our thanks for helping to keep the club and the CCII alive. Thanks, Tom.

FASBAS has been re-issued, with its first release bugs corrected, and almost all of its restrictions removed. For those of you who don't know, FASBAS is a BASIC compiler written by Peter Hiner of Great Britain which lets BASIC programs execute in about one fifth the time they normally require. In the latest issue of CompUKolor, the newsletter of the CompuColor Users' Group of GB, Peter reports that execution times compare very favorably with those of other BASIC compilers for Apples and TRS-80's. The revised version (V12.20), is available to those who purchased the original version by sending a disk and return postage to our librarian. For new purchasers, \$20. (for US/Canada, \$24. for overseas) will bring you compiler and manual.

**CHIP Meeting dates** have been changed to the first **Tuesday** of each month. That makes the next meeting Sept. 6th, at Compuworld on White Spruce Blvd., 7PM. Rick Taubold will demonstrate his Morrow and CCII combination. It should be an interesting time. If the Morrow can help Rick develop games faster, it should be well worth whatever money he spent. The gamesman in our house has spent hours at Rick's games, and reports that they are superb. By the way, the October CHIP meeting may be held in Compuworld's new quarters on Scottsville Road. (Call Compuworld before attending.)

Also by the way, Rick Taubold has a new game, this one for sale, called The Final Frontier. From the description, it sounds like a souped-up Startrek; from experience, it should be a real graphic treat. The Final Frontier - \$25. from Rick Taubold, 197 Hollybrook Rd., Rochester, NY 14623.

### Membership

Gene Bailey  
28 Dogwood Glen  
14625

### Librarian

Doug Van Putte  
18 Cross Bow Dr.  
14624

### Editor

Ben Barlow  
161 Brookside  
14618

(All Rochester)

4th Annual  
Rochester Computer Faire

Sponsored by:  
Computer Access  
and  
U of R Graduate School of Education

Sunday, Oct. 16  
Noon - 6 PM  
U of R Wilson Commons

Seminars, Exhibits, Demonstrations

ALL WELCOME  
\$.50 each

## CHIP LIBRARIAN'S STATUS REPORT

This report includes an updated listings, a significant announcement, and word of an important conversion.

The library listings has been increased to 92 disks. Most were built from a potpourri of contributions, some old and some new, some domestic and some foreign. Jim Helms gets a special thanks for contributing material which resulted in two disks. There is more to come in all categories - help me fill them out with your contributions. The listing of the new disks follows this report.

The Intecolor 3650 folks should be pleased to hear that I've had great response to my plea for a 3650 Librarian. Bill (Frepost) Freiberg stepped forward first. Bill now has a complete set of the CHIP library in CCII format. With the help of several volunteers, we hope he is in business soon. Bill's address is:

Wm. E. Freiberg, Box 394, Summit, NJ 07901, 201-464-0603

Bill has a big job ahead of him. CHIP wishes him good luck and many thanks for tackling this big task for the 3650 folk. Now, how can we reach the Intecolor 8000 series folks? Anyone have any bright ideas?

The important conversion I mentioned involves the library listings. When I destroyed the library listing source file by error for the first fifty disks, I gave up hope in getting the material updated and reprinted. Enter Joe Charles Jr. and Sr. with a word processor and a daisy wheel printer, add lots of effort, and the problem is solved! The club now has a new professional looking library listings to distribute as needed. The Charles' father and son combination has volunteered to update the listing as required. Many thanks to Joe Jr. and Sr. for this needed contribution. Soon I'll be talking to my CHIP buddy, Mike Diveto, about making a gross of the new listings. Why does Van Putte need a gross? Read on..

The demise of FORUM is regretful, but it does offer CHIP a chance to grow further. I've written to Dave Grice, the FORUM Group librarian to discuss some possibilities for making that library available in the U.S. Also, the listing of FORUM members in the final issue offers CHIP a resource of obtaining new, contributing members to the club. I see this activity in line with our charter of sharing information and programs with as much of the ISC community as we can reach. If anyone wants to work on these activities, please let me know.

CHIP LIBRARY ADDENDUM - 7/'83

DISK 86 Business

BANK FILES. Read from or write to bank files. F. Hudson  
CHECKBOOK SYSTEM. Complete system with menu of features.  
Needs work on some of the modules.  
LOAN CALCULATION. For declining interest loans.  
GROWTH CALCULATOR. Compound annual growth by two methods.

DISK 87 Utility

SRC.to DOC. Converts SRC. files to Compu - writer DOC. files.  
From Colorcue article, V.5, No.2.  
MENU. Nice menu program by the master, M. E. Linden.  
MUSIC COMPOSER. Novel composer/editor referenced in Colorcue,  
V.5, No.1. A must for those with sound. By D. B. Grant.  
TELEPHONE REFERENCE. Handy quick reference by the Red Baron.  
CCI CODE DEMO. Visual demo of FG/BG color codes for PLOT 6.  
SPEED V8.79. Disk speed program for V8.79. CUVIC.

DISK 88 Games

THUNDERROAD ADVENTURE. Deliver the white lightning to Know  
Bone. By Don & Frieda Boner. Adapted by Rick Taubold.  
SPACE SHIP LANDING. Guide A. Grosono's ship to a safe landing  
using both side and vertical thruster controls.  
SLIDING PUZZLE. A fine version of the old puzzle to move a  
block to a specific location. Not easy. By R. Safford.  
HELICOPTER RESCUE. A new real-time game to maneuver a  
helicopter to put out a sky-scaper fire. D. Neuman, CUWEST.

DISK 89 Educational

ALPHABET TRAINER. For small children. Contains some pictures.  
HAIKU POETRY. Creates Haiku Poetry using artificial intelli-  
gence. By J. Rutch. Adapted by Tina Minor.  
OPTICS SELF-TEACH. First order optics self-teach with good  
graphics to illustrate principles.. CUWEST.  
REDOX SELF-TEACH. Reduction-Oxidation Reactions. CUWEST  
PRINTING CALCULATOR. Simulates a printing calculator on the  
screen or a printer. J. Crane.

DISK 90 Games

STREETS OF THE CITY. Resource strategy game to manage a  
transit company. K. Murry, 'Creative Computing', April '81.  
Adapted by R. Taubold.  
POKER SOLITAIRE. Make the best poker hands by arranging cards  
as turned-up in a 5X5 layout. Scoring table given.  
RED-BLACK. A red-black solitaire game with nice graphics.  
MAZE. One more maze: You determine size, computer designs,  
then you solve.  
PETALS-ON-THE-ROSE. Game of insight with clues.

**DISK 91 Games**

Contributions by Jim Helms. Most are assembly versions of popular CCII/Intecolor games in BASIC. SRC. versions are available on request for all but ZILCH.

CRIBBAGE. Similar to DISK 49.

OTHELLO. Similar to the CompuColor program.

FOOTBALL. Similar to DISK 15.

ZILCH. Similar to DISK 13.

BATTLESHIP.

LIFE.

**DISK 92 Utilities**

Contributions by Jim Helms. Source versions sent on request.

SOURCE DIVIDER. Assembly language program to remove sections of a source file. STRIP1.SRC provides instructions.

REMARK STRIPPER. Removes remark statements from an SRC file.

SOURCE MERGER. Assembly language program to merge two or more source files. SMERGI.SRC provides instructions.

BASE2 PRESET. Used to preset a Base2 printer.

PRISM DUMP. IDS Prism printer screen dump program.

BIORHYTHM PRINTER. Provides a permanent copy.

GRAPHICS SET GENERATOR. Determine and edit bit patterns to create your own character set. Demo files included.

# 8K RAM + 8K EPROM for COMPUCOLOR 11

---

An add-on memory board with 8K RAM plus space for 8K EPROM is available for the CompuColor 11 or Intecolor 3651. This 8K RAM/EPROM can hold assembler programs in the address range: 4000H - 5FFF. Your existing 16 or 32K of RAM is still available for BASIC or Assembler programs.

Some minor modifications are required to the main logic board. (Five soldered links.) Some versions of V8.79 CompuColors may also require an update to FCS. An update FCS ROM is required for V6.78 CompuColors.

The RAM board can also be easily connected to a ROMPACK system instead of the fixed 8K EPROM. The two banks of memory are selected by switch.

To retain the contents of the 8K RAM after power-off, a battery back-up is available.

A second 8K RAM/EPROM board can be connected to the first board.

## PRICES

=====

8K RAM board plus sockets for 8K EPROM (RAMBK): \$65

## OPTIONS:

Bank Select cable and switch (RAMBSC):	\$10
Battery backup (without batteries) (RAMBB):	\$15
ROM-PACK Cable and socket (RPCS1):	\$23
ROM-PACK (No EPROMS) (RP8K):	\$12 each
8K of EPROM (Blank) (2732x2):	\$16 each
FCS update for V8.79 without UA5 #100695 :	\$20
FCS update for V6.78 ( adds 4 jumps + bell):	\$22

## 4000H SOFTWARE AVAILABLE (On disk or EPROM):

-----

COLORWORD Word Processor (Gives 27Kb text):	\$55
General Ledger (Simplified Visicalc):	\$70
Disk Editor (Includes formatter):	\$20
Directory (For use with Database II)	\$20
WISE-II Assembler Emulator:	\$25
Lister (BASIC programs):	\$15
Printer Driver (for .SRC files):	\$15
Screen Editor and Assembler:	\$30
Cross Reference Assembler Utility:	\$15
BASSRC, HEXDIS, SOLITAIRE, CRIBBAGE:	\$15 each
THE Basic Editor available soon:	
Your own program written to EPROM:	\$10

## PROGRAM PACKAGE INSTALLERS

PO Box 37  
DARLINGTON  
WESTERN AUSTRALIA  
6070  
09 2996153

A Simple Data Set Ready Implementation for the CCII  
by  
T.R.Wulff

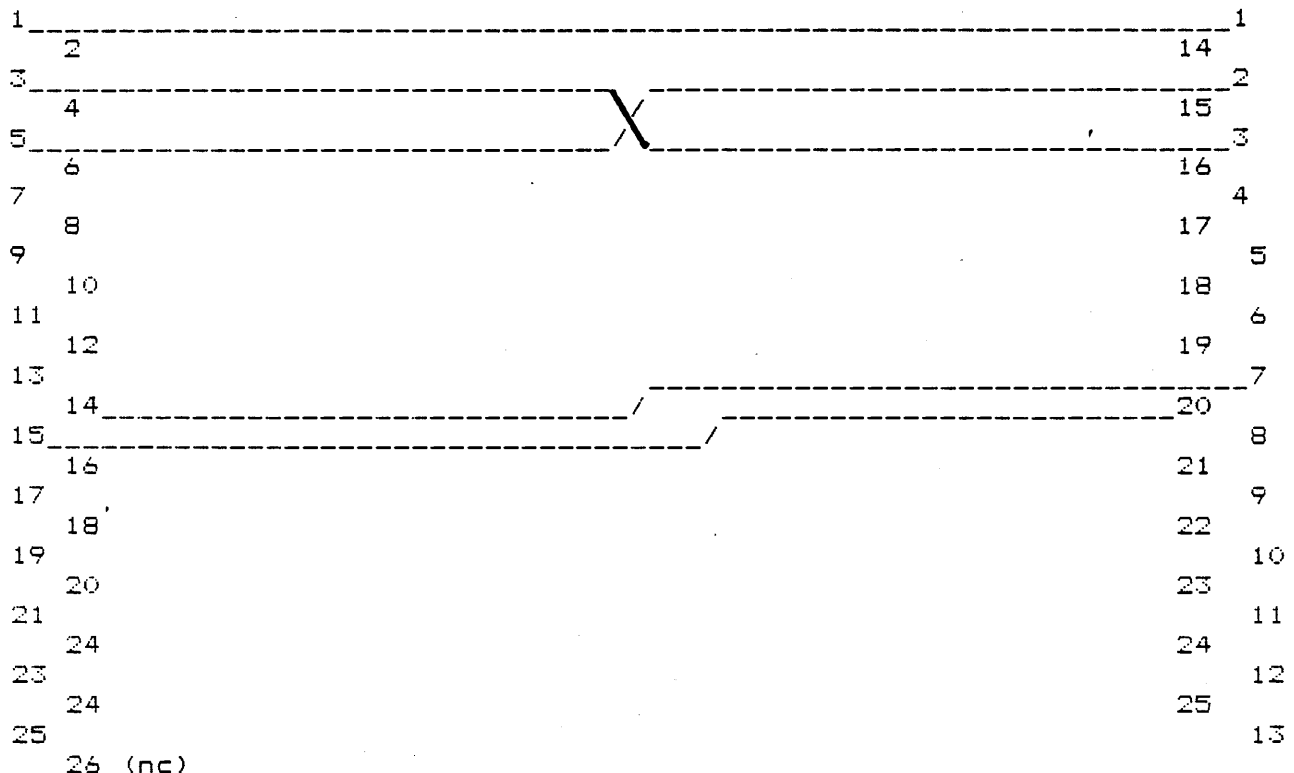
The Data Set Ready line for the RS232 port allows a Data Set such as a printer to tell the host computer when it is busy by pulling that line low. Unfortunately the CCII does not take advantage of this line and will dump data whether or not the device is ready. I have a Prism printer connected to the RS232 port and have found this to be inconvenient. In trying to resolve this problem I discovered a very simple modification that seems to work well. In trying to resolve this problem I discovered that one of the parallel ports was apparently not being used (port I7A). While experimenting with this port I also discovered that the serial transfer and keyboard was inhibited when this port was pulled to ground. I connected this port to my printer's DSR line and behold the CCII now waits until the printer is ready before sending more serial data. Some observations that I have made with this configuration are:

1. the keyboard is inhibited when the printer pulls the line low
2. the CCII operates normally when the printer is not powered
3. the prism printer is 'busy' when a fault occurs, is off line or has a full buffer
4. I can operate at 9600 baud without error
5. I have been able to send serial data to the printer from either BASIC or FCS without trouble

The only modification that I made to my CCII was to connect a wire from pin 11 on the keyboard connector to pin 15 on the modem connector. According to the schematic pin 15 is connected to a pull up resistor. However I found that this was incorrect when I looked at the board and that it was unconnected. To complete the connection between the CCII and printer I used the wiring diagram shown below. This is not a simple parallel connection of wires as you would find in using a ribbon cable with mass termination connectors.

MODEM Connector (to CCII)

D-Connector (to Prism Printer)



## ◆ CompuColor Hardware Options ◆

- ★ LOWER CASE Character set. (Switchable) MSC12 \$29 U.S.
  - ★ MULTI-CHARACTER sets. (Lowercase, Electronic, Music etc.) \$39
  - ★ REMOTE DEVICE CONTROLLER. Switch ON/OFF 8 devices. PSC1 \$45
  - ★ 16K RAM Upgrade. (Increase from 16K to 32K.) \$99
  - ★ ROMPACKS. Easy exchange of 8K EPROM MODULES. The interface board can hold an additional 8 or 16K EPROM.
    - Interface board, cable and ROMPACK socket: \$48
    - Each blank ROMPACK (Including EPROMS): \$28
- (Please write for full details of ROMPACK system and available software.)
- ★ 8K RAM board (4000H) Includes space for additional 8K EPROM:\$65

**PPI**

PROGRAM PACKAGE INSTALLERS,  
P O Box 37,  
DARLINGTON,  
WESTERN AUSTRALIA 6070

All prices  
incl. airmail.



## Word Processor



COLORWORD V3.5

for the COMPUCOLOR II (V6.78, 8.79), 3621 and INTECOLOR 3651. (32K RAM)

**only \$55 (U.S.)** Incl. airmail

- \* Full screen, fast operation with 21K byte buffer. (Assembler written)
- \* Can be used with any level keyboard. (101 key is recommended.)
- \* Automatic word wrap on screen and printer with justification. (30-199 col)
- \* Block and character Move, Copy, Delete, Save and Print.
- \* String search with optional replace. (Both up and down file.)
- \* Operates with or without lowercase character set. (Selectable).
- \* HELP facility. Full command summary on screen.
- \* Automatic repeat on all keys.
- \* Imbedded control codes allows operation of any printer function.
- \* Screen preview of printout at any time.
- \* Compact file storage in FCS format. Can process existing .SRC files.
- \* All FCS commands available. (INI, DEV, DEL, DIR, REN)

**PPI**

PROGRAM PACKAGE INSTALLERS,  
P O Box 37,  
DARLINGTON,  
WESTERN AUSTRALIA 6070 (Ph.092996153)

Please include  
payment with order.





# ROM-PACK for COMPUCOLOR 11

An easily installed 8K ROM-PACK is now available for the CompuColor 11. The socket is mounted on the top of the cabinet rear-shell. No soldering is required. Each ROM-PACK can contain 8K of EPROM holding assembler programs in the address range: 4000H - 5FFF. Your existing 16 or 32K of RAM is still available for BASIC or Assembler programs. (Note: CompuColors already fitted with the ISC EPROM board, may require the exchange of ICs: UA5 and UB3.)

## OPTIONS

The ROM-PACK interface board can also hold an additional 8 or 16K of fixed EPROM, which can be optionally selected by switch, or with the Selection logic fitted, by keyboard or program.

## PRICES

Interface board (RPIF):	\$25
Cable and socket (RPCS1):	\$23
ROM-PACK (No EPROMS) (RP8K):	\$12 each
8K of EPROM (Blank) (2732x2):	\$16 each

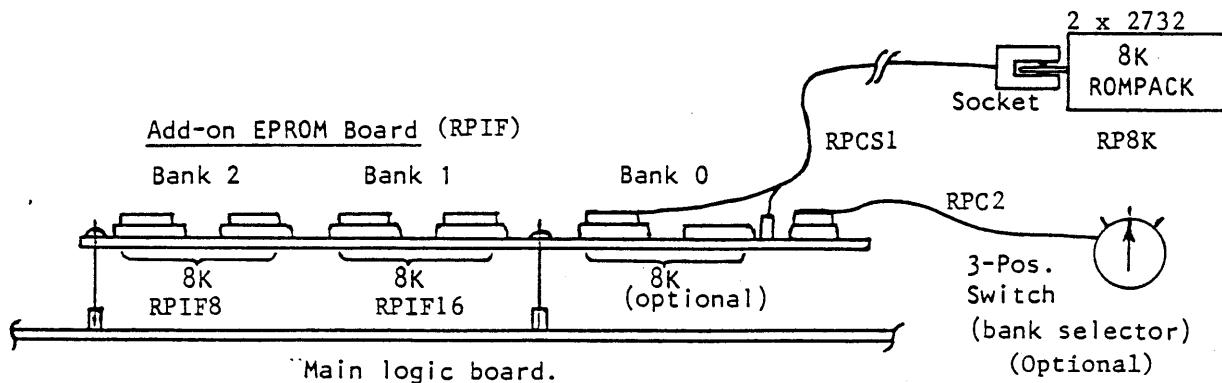
## OPTIONS:

Space for additional 8K of EPROM (RPIF8):	\$10
Space for a further 8K of EPROM (RPIF16):	\$10
Bank-select cable and switch (RPC2):	\$15
Keyboard/software selection logic (RPSL):	\$30

## EPROM SOFTWARE AVAILABLE: \*

COLORWORD Word Processor	\$55
General Ledger:	\$70
Disk Editor: (Including Formatter)	\$20
THE BASIC Editor with DOS: (Later)	
Directory:	\$20
WISE-II Assembler Emulator:	\$25
Lister (BASIC programs):	\$15
Printer Driver (for .SRC files):	\$15
Screen Editor and Assembler:	\$30
Your own program written to EPROM:	\$10

PROGRAM PACKAGE INSTALLERS  
 PO Box 37  
 DARLINGTON  
 WESTERN AUSTRALIA  
 6070  
 09 2996153



EPROM/ROMPACK System - Physical layout