

# comletter

SEPTEMBER 1979 No. 7

## THE CONFERENCE IS COMING

Mark your calendars for December 3rd, 4th, 5th and 6th when the International Conference of Wang Users will convene at the Sheraton-Boston Hotel. Like last year, the Conference will be a joint meeting of both the computer and word processing societies (WSUS and WOSUS).

Geared for all Wang computer users, this year's Conference will feature sessions for both the novice and experienced user. Sessions about Telecommunications, presentations about Wang equipment, technical feedback, workshops, and equipment demonstrations are just some of the events scheduled for the four-day Conference.

Most importantly, there will also be many opportunities for you to meet with the Wang staff and industry leaders. Likewise, time will also be scheduled for you to talk with other Wang users.

"The energy level is at an all-time high," said Doug Belnap, Conference Coordinator, "and we have every intention of maintaining this momentum in order to achieve another successful Conference."

In the next few months, a Sampling of Sessions and a Tentative Agenda will be mailed to you. In the meantime, if you have any suggestions or questions, please contact Doug Belnap at (617) 851-4111.

IN THIS ISSUE ...

- \*Conference Update
- \*New Interactive Terminal
- \*WSUS Overview

## COMLETTER GETS A FACELIFT

Good news! Comletter is now a monthly.

That's right. If you are a WSUS member, you can expect a brand new-looking newsletter in your mailbox each month. Geared for the Wang computer user, Comletter will continue to print technical information, society news, classified ads, new product announcements, and general interest information.

The even better news is that in future issues there will be new additions to the editorial content. Articles such as:

**Profiles.** An interview with a computer person. Any candidates you feel have contributed to the growth of the industry?

**Questions & Answers.** If you have a question but not the answer, or if you have both, why not share it with other Comletter readers.

**Share An Idea.** If you have a particular computer interest, send it into Comletter. Perhaps another WSUS member shares the same interest.

**Suggestions.** Something that you would like to see? Then by all means, send your suggestions to Comletter.

As you have probably noticed, Comletter has also had a facelift. We hope you like this new design and direction. With each change the question was always asked: What will please our readers?

So if there is something you would like to share, a question you would like to ask, or a comment you would like to pose, just send it along and Comletter will do the rest.

## FASTER THAN A SPEEDING BULLET

A recent study found that there are substantial differences in problem-solving times among small computer systems in the \$20,000 price range.

Sponsored by the Association of Small Computer Users (ASCU) and conducted by Real Decisions Corporation, an independent consulting firm in Stamford, Conn., the results showed that the Wang 2200VP was faster than two major competitors by a factor of more than 20 in solving a standard scientific/engineering problem in which the number of variables was 50 and the precision was 12 digits.

According to ASCU, one competitor's system cranked out a "scientific/engineering" routine in 38 min., 27.5 sec. Still, another system manufactured by a major competitor took 29 min., 47.2 sec. to run the same job, while that task shot through the Wang 2200VP in only 2 min., 5.8 sec.

A summary of the studies is being published in the Benchmark Reports. Each report is addressed to a single system and includes execution times clocked by Real Decisions for a variety of jobs under four headings: CPU-intensive and I/O-intensive speed tests, "real-life" problems and an ease-of-use test. For additional information about the study, ASCU can be reached through P.O. Box 9003, Boulder, Colo. 80301.





## NEW INTERACTIVE TERMINAL

Wang Laboratories announces the addition of a new interactive terminal (Model 2236DE) for the 2200VP and 2200MVP family of computer systems. This new microprocessor-controlled terminal offers features not previously available, including:

- Dual Intensity
- Reverse Video
- Underlining
- Blinking Characters
- Graphics Character Set
- Box Graphics
- Screen Dump to Printer
- Repeating Keys
- Self-test Diagnostics

These new features can be implemented with a minimum of programming effort because of the recent changes in the 2200VP and 2200MVP operating systems. The Model 2236DE gives the programmer the capability to create highlighted displays, to utilize special graphic characters, or to draw box graphics at any screen location.

## THE 22C32 TRIPLE CONTROLLER

The 22C32 triple controller may be configured to control the most popular peripheral devices, while requiring only a single I/O slot. In fact, it is practical to configure a minimal 2200 system with only the 22C32 and no other I/O controllers.

The 22C32 provides for the control of a printer, a disk, and a 2236D or 2236DE terminal. The printer or plotter must be compatible with the 22C02 controller. (This includes most printers and plotters but excludes, for instance, the 2232 flat bed plotter.) The disk must be compatible with the 22C03 controller. (This includes the 2270A diskette and 2280 hard disk, but excludes the 2260C and 2260BC.) The terminal

portion of the controller behaves as a single port 2236MXD, so the 22C32 may be used to control terminal 1, 5, or 9 on an MVP system. Data communication speed to the terminal is restricted to 19.2K bps; local cabling up to 2000 feet is supported, remote connection using modems is not.

## CONTROLLERS FOR THE 2280 DISK DRIVE

The 2280 disk drive is connected to a 22C14 disk processor (DPU). The 22C14 is a large package similar in appearance to a 2200 CPU. The 22C14 is in turn connected to a disk controller, such as the 22C03, 22C11, or 22C32, residing in one of the I/O slots in the CPU chassis. Disk multiplexers such as the 2230MXA may not be used. A second 2280 drive may be connected to the 22C14. MVP users should be aware that the MVP can perform only one I/O operation at a time through the 22C14. If the data stored on two 2280 drives is accessed by unrelated programs, it may be possible to realize faster throughput by connecting each 2280 to its own 22C14.

## VP AND MVP CARD READER RESTRICTIONS

There are a few subtle operating system differences in the VP and MVP that may impact certain "batch mode" card reader applications originally written for the 2200B, C or T. In fact, it was these differences that prompted the development of the 2244B card reader in order to offer a card reader on the MVP.

### 1. Reset Card

Reset on a 2200VP causes console input (CI) and console output (CO) to be re-selected to address 001 and 005, respectively. This means that reading a reset card (rows 2, 3, 4 multipunched) will cause control to be returned to the CRT console, which is probably not what the application had in mind. On the MVP, the reset card is simply ignored and the next card is read.

### 2. No SELECT CI on MVP

The MVP does not permit console input to be selected to other than address 001, the terminal controlling the partition in question. This means that immediate mode commands, such as CLEAR, used in "batch mode" systems may not be read from cards.

### 3. Limited use of INPUT on the MVP

The MVP does not permit the BASIC INPUT or INPUT statements to be used at other than address 001.

### 4. Immediate mode statements during LOAD

Unpredictable errors may occur when immediate mode statements are encountered during the execution of a LOAD statement. Users should make certain that each program line has a statement number. The best bet is to write a program to quickly check the cards for missing statement numbers. If no errors are detected, the cards may then be restacked, and the cards may be read as program overlays with the LOAD statement.

## CONFIGURING THE VS REMOTE WORKSTATION

There are essentially three types of configurations that can be used when selecting the appropriate modems for use in VS Remote Workstation (2246R, 2249V and MSU) configurations. All can be mixed and matched on a single VS system.

1. Point-to-point Dial-up (switched) This configuration allows one 2246R, one cluster controller (2249V) or one MSU at any location to manually dial the VS host location to make a connection. This type of configuration allows only one location at a time to use a port on the 22V06. Two dial-up modems are required: one at the host and one at the user location.
2. Point-to-point leased line (non-switched) This con-



figuration is used for a location which demands to be on-line all the time through a permanent line provided by the phone company. The user location may have a single 2246R, a 2249V Cluster Controller, or a single MSU. Two modems are required: one at the host and one at the user location.

3. Multi-point leased line (non-switched) This configuration allows multiple locations to share one leased line. The line is leased from the phone company and runs from the host site through each of the desired locations. A 2246R, a 2249V or an MSU may be at each location. A modem is needed at the host and at each of the user locations.

**Wang**  
**classified**  
for those who buy or sell!

### FOR SALE

WCS 20-4, 16K w/2226 CRT, Triple Floppy, 2200T-4 CPU, 2231W-1 Printer; Family Social & Psychological Services, Inc., 2110 West National Avenue, Milwaukee, WI 53204, 414/383-7762.

\*\*\*\*\*

2200-C3 PROCESSOR w/12K memory, 2230-1-30, 3K Disk Drive w/6 disks; 2200-16/17 CRT and Tape Drive; 2222-E Keyboard; 2221 High Speed Printer; Type 2290 Stand; all under maintenance contract; Charles Chaney, C.H. Chaney Company, Inc., 1250 East Mermaid Lane, Philadelphia, PA 19118, 215/248-1377.

\*\*\*\*\*

2200VP-8, 32K w/2221 Line Printer; 2270A-2 dual, IBM compatible diskette drive, 2260 10-megabyte disk drive, 2223 alphanumeric/basic keyword keyboard, 2216/2217 16x64 CRT and cassette drive; I/O Boards, 2201 typewriter output cntlr, 2221/2231/2241/2261 printer cntlr, MXA MUX board, 16x64 CRT cntlr, 2217 cassette cntlr, triple cntlr (keyboard, prntr/pltrr, disk); 100' remote terminal extension cable; Robert Greengrove, PROGEN, Inc., 162 Grant Avenue, Nutley, NJ 07110, 201/667-7425.

\*\*\*\*\*

2200 SYSTEM, 32K, 80x24 workstation, excellent condition; Earlene Batten, Barclay Associates, Suite 590, Valley Forge Plaza, 1150 First Avenue, King of Prussia, PA 19406 215/337-0420.

\*\*\*\*\*

2231 GRAPHICS PRINTER, one year old, A-1 condition; H.L. Glover, P.O. Box 5521, Evansville, IND 47715, 812/426-2271.

\*\*\*\*\*

WANG MODEL 2203 PAPER TAPE READER, never used; Don Tyson Redken Laboratories, Inc., 14721 Califa Street, Van Nuys, CA 91411, 213/781-4934.

\*\*\*\*\*

2200A SYSTEM, 32K w/2271 Printer and three 2217 Tape Drives; Jack Jarvis & Company, Inc., Real Estate Consultants, 707 Southwest Washington Street, Portland, OR 97205, 503/224-7838.

\*\*\*\*\*

2200T SYSTEM w/24K memory, stand w/CRT cutout and 2270 A-2 .50-MB dual removable diskette drive, 2226-A keyboard/CRT, 22C31 triple controller for diskette w/keyboard and line printer, 22C34 CRT controller; 2200VP SYSTEM w/32K memory, 2223 Alphanumeric Basic keyword/keyboard w/controller, 2216/2217 CRT w/single tape cassette drive and controller, 2231 Line printer (80 col., 100 char./sec.) and controller, 2270A-2 .50 MB dual

removable diskette drive w/controller, Houston Instrument DP-8 plotter (a fast 3 pen drum plotter), 2201 Output Writer (a modified IBM Selectric typewriter which can be used manually when not under program control); Boguslaw Kubica, Systems Divisions, Bell & Murphy & Associates, Inc., 4100 McEwen Road, #260, Dallas, TX 75234, 214/386-0252 or telex 73 0415.

\*\*\*\*\*

WCS30 w/10MB disk drive, 2270-1 single diskette system, 2261W printer; WCS20 w/2270-2 dual diskette system, 2221W printer, TC option; John Hamlet, Engineered Business Systems, 1416 Forbes Road, Lexington, KY 40505, 606/252-5564.

\*\*\*\*\*

2200T CPU, 16K; 2231W-1 Printer, 112 col., 120 cps; Dave Frodey, Taylor Rental Center, Elnora Road, R.D. 1, Clifton Park, NY 12065, 518/877-7449.

\*\*\*\*\*

2200C, 32K w/Sort ROM, 2200-16 CRT, 2230 Disk Drive, 2221 Printer, 2201 Output Writer; Dan Kilby, Brecon Knitting Mill, Inc., P.O. Box 478, Talladega, AL 35160, 205/362-6141.

\*\*\*\*\*

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2200T-4 CPU, 2226 CRT console, 2200WS-4, 2201 Printer, 2230-3 Disk, 2230 MXA Muxboard; James McMonagle, Remmey Wood Products, 1040 Industrial Highway, Southampton, PA 18966, 215/676-0800.

\*\*\*\*\*



2200T-4, 16K, 226A CRT, 2270-1 single floppy disk, 2260B 10MB disk drive, IBM Selectric Output Writer. All equipment under maintenance contract. Will consider offers on individual times or total system. Assume lease or purchase outright; Metzdorf Advertising Agency, Houston, TX, 713/526-5361 or 0738.

\*\*\*\*\*

2200T-6, 2210B, 2227B, 2281; S. Lugert, P.O. Box 439, Peck Slip, NY 10038, 202/438-0949.

\*\*\*\*\*

2200B-4 CPU S/N 903443, 2216/2217 CRT/Tape Drive S/N 908443, 2221 Line Printer S/N 931596, 2222 Alpha-Numeric Keyboard S/N 918540, 2230-3 Disk Drive S/N 961489, Wang Inventory Program; Donald Smith, Interlease Financial Corp., 655 Redwood, P.O. Box 231, Mill Valley, CA 94941, 415/383-8300.

#### WANTED

VP Processor for 2200; David Harris, Chester Harris & Company, Inc., 115 Broadway, New York, NY 10006, 212/962-7761.

\*\*\*\*\*

Used 9 track tape for Wang 2200 System, can be 1600 or 800 BPI; Tom Kreber, Ruan Transport Corp., Box 855, Des Moines, Iowa 50304, 515/245-2653.

\*\*\*\*\*

WANG 600 w/extended memory or component to fit our Wang 600 which would enable us to use more than 75 points; George Lamb Jr., George Lamb & Associates, Inc., 2102 Hazard, Houston, TX 77019, 713/522-6903 or 2096.

\*\*\*\*\*

PCSI and 2100 Software Package or Diskettes for the design of pretensioned precast concrete sections, 16K required; Harry Edwards, P.E., LEAP Associates, Inc., P.O. Box 1053, Lakeland, FL 33802, 813/686-7141.

\*\*\*\*\*

601 or 701 Output Writer; John Coldwell, P.E., Coldwell & Associates, Inc., 4246 Chain Bridge Road, Fairfax, VA 22030, 703/691-0090.

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#### WSUS IS FOR YOU

If you haven't already heard, WSUS is for you. That is an anachronism for the Wang Systems Users Society — our computer Society which is geared to all Wang computer users.

Established eight years ago, WSUS is for the benefit of both novice and experienced users. Under the direction of Wang Laboratories, the major goals of the society are:

- \* To establish and maintain regular communications between WSUS members and Wang Laboratories.
- \* To encourage and assist users' educational efforts.
- \* To promote the interchange of ideas among members in similar fields.

Membership is open to all owners or users of Wang Laboratories' Systems. For a \$40.00 annual fee you are entitled to all of the benefits described below plus a 20% discount on all Company manuals.

Your membership begins the month in which your application is processed. The time period extends for twelve months, automatically expiring unless renewed. Upon receipt of the membership fee, the new member will receive all society material available during the Company's fiscal year (July 1 to June 30).

Every WSUS member will receive the Society's two publications — PARAGON and COMLETTER. Pub-

lished on a quarterly basis, PARAGON is geared to all levels of computer users. Each issue will contain customer stories, technical information, company news, product announcements and industry concerns. Likewise, Comletter is addressed to all Wang computer users. Published monthly, the newsletter will carry more timely information which is pertinent to the Wang computer user.

Once a year all society members are invited to attend the International Conference of Wang Users. Held in Boston during December, the Conference offers equipment and software demonstrations, workshops, customer and company presentations, a banquet with a guest speaker, and question-and-answer periods. Most important, there is the opportunity to meet with the staff of Wang Laboratories, as well as other Wang computer users.

During the remainder of the year, local user groups are encouraged to meet on a timely basis.

With the conference only three months away, right now is an excellent time to join WSUS. If you are not



Have something to say?  
Or a question to ask?

Send your comments to:  
Susan Daniels, Editor  
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Lowell, MA 01851

or  
Call: (617) 851-4111



already a member, all you have to do is fill in the enclosed membership form, and your membership will be processed immediately, with all of the society benefits following soon thereafter.

As a member of WSUS, you will have access to our Program Library which may contain the answers to your software problems. All programs submitted by WSUS members or the Wang staff are distributed upon request. As new programs are accepted, WSUS members will automatically receive this information via the program reports which contain information such as: a program order number, required equipment, a program abstract, number of program steps, the contributor's name, and application and recommended fields of application. There will be a minimal charge for handling.

Representation for WSUS is reflected through the Advisory Board. Comprised of six user members and representatives of Wang Laboratories, the Board offers input into the activities of the Society. Board members also chair the various WSUS committees.

So jump on the bandwagon if you are not already a member of WSUS. Just fill in the enclosed membership form, and drop it in your mailbox today.

## Trade Show Exhibit

For those who are in the area, here is a listing of the trade shows where Wang Laboratories will be exhibiting. This is an opportunity for you to see and hear about the latest Wang equipment. Come and see us!

September

6-8 Graphic Arts '79/The  
Charlotte Show  
Charlotte, NC

19-21 State Bar of Michigan  
Annual Meeting  
Detroit, MI

25-26 Office Expo '79  
Buffalo, NY

25-27 Trade Fair III  
Albuquerque, NM

26-28 Missouri Bar Legal  
Expo  
Kansas City, MO

October

7-10 National Radio  
Broadcasters Con-  
ference & Expo

### NAME THAT COMPUTER

Dear Editor:

You asked whether any Wang users had given their computers names. I would not be so audacious to name my computer friend.

However, I did ask him what his name was. His response was:

My name is TUTU OHOH.

For The Computer,  
R. Zipernick  
Vindar Aviation  
Novato, CA

Dear Editor:

We at Tommy House Tire Co., ask our Wang MVP the proverbial question .... What's it all about, ALPHIE?

Neil Cox  
Tommy House Tire Co.  
Decatur, ILL

Dear Editor:

We had a "Name the Wang Contest" a year ago and the one that impressed me the most was W.A.S.T.E. — Western Administrative and Scientific Technical Emulator. However, the winning entry was simply "The Wang" as everyone was already familiar with it.

Yours truly,  
Barbara Hamilton  
Health and Welfare  
Canada

### CUSTOMER EDUCATION

The new Customer Seminar Schedule brochure is now available. The brochure contains expanded course descriptions for the 2200T, VP, MVP and VS courses. For further information contact your local Wang Sales Office or contact the Wang Education Center, 20 South Avenue, Burlington, MA 01803 617/272-8550.

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### MANUALS

The following manuals are now available. Contact your local Wang Sales Office for details on how to obtain copies.

Word Processor 6581W Daisy  
Printer User Manual (700-5176)

VS COBOL Pocket Guide (800-  
6200)

2200 GBS/MVP Mods I & II User  
Manual (700-5023)

Manufacturing Management System  
Marketing Guide (700-5124)

Inventory Management System User  
Manual (Interim) (700-5124)

2260BC/2260C Disk Drive User  
Manual (700-5102)

Word Processor Photocomposition  
Glossary of Terms (700-5098)

Depreciation System User Manual  
(700-5119)

Manufacturing Management  
Installation Forms (700-5110)

2270 Series Diskette Drive User  
Manual (700-5107)

Word Processor Typesetter 44/48  
Command Structures Card (700-  
5133)

Word Processor Photocomposition  
System Operators Reference Manual  
(Interim) (700-5113)

Technical Publications Literature  
Catalog (700-5294)



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