

README.DOC

A Monthly Journal of the Orange Coast IBM PC User Group

\$3.00

**General Meeting, June 24, 1989 at 9:00 AM
Orange Coast College-Science Hall**

**Upgrading Your Computer
XT to AT to 386
and
Check-It Diagnostics**

From the President	p. 2
Review of May General Meeting	p. 4
Steve Gibson's Column	p. 5
Librarian's Corner	p. 7
Special Interest Group Reports	p. 8
Technical Corner	p. 12
Membership Form	p. 15
From the Board of Directors	p. 16

GENERAL INFORMATION

README.DOC is published monthly by the ORANGE COAST IBM PC USER GROUP, P. O. Box 6100-211, Costa Mesa, CA 92628. The group's recorded message phone number is (714) 898-7998.

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Articles may be submitted via modem to the OCIPUG BBS, on paper or on an IBM format diskette (5-1/4" 360k format preferred). We will accept them in any of several formats, although we strongly prefer pure ASCII files. Other acceptable formats include Microsoft Word, Multimate, WordPerfect and Wordstar. Submissions on paper should be double-spaced and typed. All items submitted for publication are subject to editing.

DEADLINE

Articles and advertising must be received by the twentieth (20th) of the month prior to date of publication.

ADVERTISING

All advertisements must be camera ready and prepaid; rates and deadlines for commercial advertisements are available on request.

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ADVERTISING POLICY

Members are allowed to place an advertisement for personal items in the *README.DOC* newsletter at no cost. There will be a limit to the amount of advertising placed in the newsletter. All submissions will be placed on a first come, first served basis.

Commercial advertisements, from members and others, are also welcome. For information concerning advertising rates and requirements, contact:

Steven Dela (714) 775-8373 or write to Advertising Manager, OCIPUG, P. O. Box 6100-211, Costa Mesa, CA 92628.

PURPOSE STATEMENT

The purpose of the ORANGE COAST IBM PC USER GROUP is to provide a forum for members to share information and experiences that will help other members obtain maximum benefit and enjoyment from the use of their IBM PC and compatible personal computers.

TRADEMARKS

The mention of the names of various products in this publication without indication of Trademark or Registered Trade Mark status does not imply that these products are not so protected by law.

General Meeting, June 24, 1989 at 9:00 AM Orange Coast College-Science Hall

Upgrading Your Computer XT to AT to 386 and Check-It Diagnostics

UPGRADE YOUR COMPUTER

Intel PCEO will send Ms. Deb Habel from Technical Support in Hillsboro, Oregon to demonstrate In-Board products to upgrade your personal computer. Intel has generously donated an In-Board PC for our raffle. With a retail price of \$895.00, it could make your PC or XT run ten times faster. We will also feature the Microsoft Corporation MACH 20 board.

At the General Meeting of August, 1987 Richard Sabin built a 80286-base clone, from the power cord up to the monitor. This time he plans to assemble an 80386 clone from all necessary parts, donated by American Tech in Brea.

SHAREWARE

Shareware has always been popular at OCIPUG. At an early

organizational meeting in May, 1985 at Sperry Training Center in Irvine, Francis Gates brought his entire collection of PC SIG software to the group to review. This demonstration of how public domain software could be legally shared strongly influenced growth of this user group. It also impressed Bonnie Ulanovsky, our OCIPUG Librarian, who now numbers thousands of disks in her personal collection. Her Shareware SIG is one of the most popular. For new members, she will explain how to navigate the OCIPUG library.

PERMANENT SIG MEETING FACILITY

On June 1, 1989 our new "International Headquarters" facility opened at 17632 Metzler, Huntington Beach (near Beach Blvd and Slater Ave). To get

upstairs to Room 211, enter the elevator at the side of the building or use the stairway at the rear.

OCIPUG TELEPHONE NUMBERS

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(714) 843-2048

OCIPUG Main Office
(714) 843-9248

OCIPUG BBS - Public Line
(714) 843-0388

OCIPUG BBS - Private Line
(714) 962-6216

Remember, June 24 is the 4th Saturday of the month. See you there!



Reminders:

➡ Before attending a SIG meeting, be sure to check the SIG calendar for time and location.

➡ Deadline for July issue is June 30th.

PRESIDENT'S MESSAGE

Paul Curtis

SHARING

Last month I discussed a request by HANK LEVISON (member #1278) to have OCIPUG assist in obtaining a microcomputer for a handicapped individual.

Well, there is some good news. OCIPUG members have opened their hearts and their garage doors. They have pulled out a collection of old and new parts, and generously donated them to this project. We have enough pieces to build one complete computer.

VERN RICE of Veric International kindly donated a fully-populated system board, a hard-drive controller, a multifunction I/O card, a CGA card, and a floppy controller.

STEVE DELA donated a case, a power supply, a fully-populated system board, and a floppy drive - all in brand-new condition.

PRESTON HILL donated a monochrome monitor, and I've donated a 20-Megabyte hard drive, a keyboard, and whatever else is needed to get this system up and running.

On Saturday, June 3rd, at the New Member/New User Special Interest Group, we assembled the pieces and created a computer. It is unfortunate that we did not have all of the right RAM chips we needed, but this is being taken care of, and the task should be completed by the time you read this.

"WORLD HEADQUARTERS"

Speaking of SIG's, a lot has happened in the last week or so. TOM SUTRO has done yeoman work in making arrangements for use of the new OCIPUG World Headquarters. The telephones are in, thanks to the efforts of RICHARD SABIN and General

Telephone. The Public BBS system and the message machine have been moved to the new offices.

RICHARD SABIN has arranged for a loan of fifty chairs for SIG meetings, free from Steelcase for a month and until we get permanent seating. We owe Steelcase and their ED BARNEY a great big thank you.

Please note elsewhere in this journal that some of our telephone numbers have changed. The old numbers will be on autocron referral for six months.

As long as we are on the subject of SIG space, I want to thank Advanced Computer Products for donating a room in which we conducted many SIG meetings. Though we no longer need this space, let's not forget what they've done for our group, when it comes time to purchase computer products.

NATIONAL BBS TELECONFERENCE

The BBS Teleconference is conducted each Monday evening at 7:00 PM through the APCUG BBS in Scotts Valley, California. This is an opportunity for leaders of user groups to get together and share ideas on how to increase the group's value to its members. On May 22, 1989 we linked with them from the MS Word SIG at Dave Lorenzini's office, so that others could observe how the system works. Not very many User Group Presidents showed up! STEVE BASS from Pasadena was there, and we got some good ideas from Borland about the use of very high capacity spaces for joint sessions of user groups. More about that as it develops.

NEW SOFTWARE

This is being written on a brand new program from Informix Software. The program is called SMARTWARE II (vers 1.0). It has changed quite a bit from previous versions of SMARTWARE. SMARTWARE II integrates modules for word processor,

database, spread sheet, and communications. It also has a limited time management module. So far, so good.

BELIEVE IT OR ELSE

More good news from the trade press. It just keeps getting better all the time. Now we have (CFO, April '89, page 20, column 3) a program called BATTERY WATCH from Traveling Software, Inc. which "also recharges the laptop's batteries after each use." That's a direct quote; I couldn't possibly have dreamed that one up by myself. Boy, I guess software can do just about anything these days!

Actually, BATTERY WATCH will let you know when the battery in your laptop is getting low, so you can avoid loss of your data. Traveling Software is located in Bothell, WA (206-483-8088).

GENERAL MEETING

This is where the joy of being President really makes itself known to me. DAVE LORENZINI, RICHARD SABIN, and I met to discuss the topics for the next general meeting on Memorial Day (because we had no other time available to do it), and decided that we would invite Intel, Microsoft, and Touchstone Software representatives to demonstrate their products. Intel has generously donated an In-Board PC with 1 megabyte of RAM for our raffle program. It has a retail value of \$895.00. Microsoft Corporation has donated a Mach 20 Board, bundled with software, and Touchstone Software has donated a copy of their CHECK-IT program to the raffle as well. This will be a meeting worth "taking a chance on." You must be present to win, so be sure to attend.

AFTERNOON SESSION

Kris Jamsa, author of a number of books on DOS, will speak at the afternoon session which follows the General Meeting, and will be available to answer questions. This will be of special interest to

those of you in the DOS SIG, as well as to those who want to know more about the operating system.

PERSONAL OBSERVATION

In light of recent events around the world, I feel that we ought to be very proud to call the United States of America our home. We have freedom to congregate and to speak without interference or censorship from our government, and we have the right and the high honor to be able to SHARE IT WITH OTHERS.

BLOCKBUSTER II

Dave Lorenzini

For those who were members in 1987, no one could possibly forget that Saturday in August when Richard Sabin and a team of enthusiasts from the Hardware SIG assembled an AT clone and tested it in front of our eyes. It took the entire meeting to uncrate the boxes, install the RAM chips, format the hard drive, and load the software. When the computer finally booted up, there was spontaneous applause. It seems like just yesterday.

This month the OCIPUG SWAT (Sabin's Wild Assembly Team) will try to match their previous heroics with a Triple-386 extravaganza. First, they will upgrade the club's PC-XT to an AT, by means of a Microsoft Mach 20 board. Randy Thatcher, head of Product Development for the Mach 20, will be on hand to explain the process. The AT will then be transformed into a 386 machine by use of a 386i Accelerator card from SOTA Technology. This represents 386 performance on an 8-bit bus. By the way, Microsoft has offered to leave the Mach 20 in the Club's machine permanently.

Now watch the XT be transformed into a 386-class machine with an Intel Inboard 386/PC, with a first-hand description by Deb Habel, a product specialist from Intel Corporation.

Then, after the break, in an attempt to beat the original club record, the Sabin team will build, right before your eyes, a 32-bit 386 machine from parts donated to the club by American Tec, of Brea, California.

Finally, Janine Wimberly and Ray Norvete of Touchstone Software will demonstrate Touchstone's diagnostic utility program, CHECK-IT, to analyze each of the three systems.

While all this electronic wizardry is taking place, our presenters promise to answer your hardware questions and to give concrete reasons why the 386-chip will soon displace the 286 as the microprocessor of choice.

If you're wondering how 400 people will be able to see Richard setting dip switches, just ask someone who attended the August 1987 meeting. Our team of video miracle workers had everyone viewing the case from two feet away so as not to miss a single installation step.

After you've seen how easy it is to install this upgrade equipment, Intel Corporation and Microsoft Corporation would like some lucky members to take approximately \$2,235.00 worth of equipment (total list value) home with them. Paul Curtis is in charge of soliciting and distributing the prizes.

WAIT, THERE'S MORE

After the meeting, it's Afternoon Event No. 3 (Do you remember the first two?). The topic will be "DOS TIPS AND TRICKS", with Kris Jamsa, an author of many DOS books, who comes to us from Las Vegas, Nevada.

This will be our DOS SIG meeting for July, and will be of special interest to both new and "power" users. If you don't come away from this session with several worthwhile and time-saving tips, your admission price (\$0) will be cheerfully refunded.

OK, Mr. Sabin, what's next, Mt. Everest?

WHAT HAPPENED TO THE RAFFLE?

Dave Lorenzini

As our May meeting came to a close, and the Program Chairman announced there would be no raffle, the audience was audibly annoyed. Since many members do not realize how the raffle has been supplied with prizes in the past, we will explain.

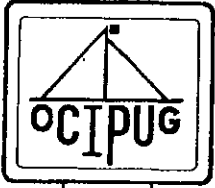
Sometimes the speakers brought along a software package or hardware item to give away, but most prizes resulted from the efforts of one member who went from store to software store, asking for raffle support. That person also created the famous OCIPUG raffle program, which ticks away the seconds to find a member on hand. He didn't receive much help from anyone else in the club.

In May he forgot that the general meeting was a week early because of Memorial Day, and so arrived too late to set up and run his program. Also, speakers on "Computers for the Handicapped" and "PC Maintenance" weren't vendors and had no prizes to donate.

The program committee realizes that the raffle is an important part of our agenda, and it demonstrates what can happen when one person is taken for granted. Later this summer, this person plans to relocate his family permanently overseas. OCIPUG will lose him and his efforts.

Each member can thank him for his efforts in adding fun to our past meetings; perhaps some of us can contact Paul Curtis to volunteer as a solicitor of raffle prizes for future meetings.

Who was this person? DAN LKINS. Thanks, Dan, from all of us!



The Orange Coast IBM PC User Group SIG GUIDE

A Calendar of Meetings & Events edited by Richard Villa

For more information on membership, write to OCIPUG at PO Box 6100-211, Costa Mesa, CA 92628. Call Voice - 714/843-2048 or BBS - 714/843-0388

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SUN	MON	TUE	WED	THU	FRI	SAT
25	MS Word 26	Real Estate 8 AM 27	28	29	30	1
2	3	Spreadsheet 4	Desktop Publishing 5	Modem 6	7	Shareware 10 AM New Users 1 PM 8
9	WordPerfect OCIPUG Board Meeting 6:30 PM 10	Database 11	12	CAD/ Graphics 13	14	DataPerfect 12:30 PM 15
16	17	C Language 18	Investors 19	Advanced Hardware 20	21	22
23/30	MS Word 24/31	Real Estate 8 AM 25	26	Hardware 27	28	9AM - OCIPUG General Meeting O.C.C. Science Hall 29

All Special Interest Groups (SIG's) are held from 7 PM to 10 PM at our SIG SPACE, located at 17632 Metzler Lane, Suite 211, Huntington Beach unless otherwise listed.

ADVANCED HARDWARE**3RD THU**

SIG Leader: Kim Betterley 714/535-5358
 Topic for the July meeting will be continuing to work with the EXP Board, which will control up to 256 devices. This SIG is for "hands-on" electronics.

C LANGUAGE**3RD TUE**

SIG Leader: Tom Anderson
 No topic was available for the July meeting.

CAD/GRAPHICS**2RD THU**

SIG Leader: David Carroll 714/775-3130
 Designated Guru: Dave Lorenzini 714/852-8663
 Topic for July will be further discussion of vector programs, including *Corel Draw*.

DATABASE**2ND TUE**

SIG Leader: Bob Schmiedeke 714/536-1178
 Contact Person: Kent Pierce 714/536-0271
 1st Half of meeting will concentrate on dBase and the second half will concentrate on other databases including *Q&A*.

DATAPERFECT**3RD SAT**

SIG Leader: Jim Picratt 714/969-4782
 At the July meeting, we will learn how to start your own database with *DataPerfect*.

DESKTOP PUBLISHING**1ST WED**

SIG Leader: Ben LeGare 714/586-8236
 Designated Guru: Richard Villa 213/439-8110
 This SIG covers all desktop publishing related topics in general during the first half, and specializes in *Pagemaker* & *Ventura Publisher* and other advanced topics in the last half. At the June meeting, a major manufacturer of add-in products for the H-P LaserJet will preview an unannounced hardware product, which gives PostScript compatibility to your LaserJet. They will be looking for Beta testers for this product. Also, a demonstration of SoftCraft's *Spinfont*. A 48-page excerpt from *LaserJet Unlimited* will be given out to the first 12 in attendance.

DOS and LANGUAGES**1ST SAT**

SIG Leader needed. Call David Carroll at 714/775-3130 if interested.
 Designated Guru: John Goodman 714/895-3195
 Come to this group to learn more about how your PC works and how to get it to do what you want. July meeting will be cancelled, however a special meeting will be held on June 24th, after the General Meeting, as Author Kris Jamsa will discuss DOS.

HARDWARE**4TH THU**

SIG Leader needed. Call David Carroll at 714/775-3130 if interested.
 This SIG is one of the most popular, judging by the strong attendance. No information for July meeting available at press time, but please bring your hardware questions to the SIG.

INVESTORS**3RD WED**

SIG Leader: Gordon Savage 714/533-3986
 Contact Person: Greg Cimmarrusti 714/559-8939
 This group explores the world of software designed especially to help investors of stocks, bonds and commodities.

MODEM**1ST THU**

SIG Leader: Rich Sabin 714/968-3539
 Reach out and access the whole world of information through telecommunications. At the July meeting we will discuss host communications and learn how to communicate between two systems. Come and random access with us.

NETWORKING**3RD THU**

SIG Leader: Jim Mansfield 714/751-2243
 SIG Leader: Andy McGill 714/731-2951
 This SIG will resume meetings in September.

NEW USER/NEW MEMBER**2ND SAT**

SIG Leader: John Lunsford 714/995-0947
 This is the best SIG to attend first. The meetings run on a 4-month cycle and this month is number THREE in the cycle.

REAL ESTATE

LAST TUE

Contact Person: Kent Pierce 714/536-0271
 Contact Person: Tom Sutro 714/850-0474

Jointly sponsored by OCIPUG and several local Boards of Realtors, this is one of our largest SIG's. Check the Hot Line for the topic of the month. (Coffee at 7:30 AM)

Newport Harbor - Costa Mesa Board of Realtors Boardatorium, 401 North Newport Blvd., Newport Beach. [Location 6]

SHAREWARE

2ND SAT

SIG Leader: Bonnie Ulanovsky 714/646-5230

Various shareware programs will be demonstrated, and random access will answer your questions about which programs are best for you. At the July meeting Larry Wasserman will present his collection of super utilities. Library disks will be available for purchase from Bonnie. Member prices \$3.00 per disk. (Call Bonnie prior to meeting to order specific titles.)

SPREADSHEET

1ST TUE

SIG Leader: John Alesi 714/770-1130
 Designated Guru: Neil Carman 714/964-1901

This group covers Lotus 123 and other popular spreadsheet programs, including shareware products, for both beginners and advanced users. No topic available at press time for the July meeting.

WORD

4TH MON

SIG Leader: Winston Jewson 714/544-4330
 Microsoft Contact: David Lorenzini 714/852-8663

No topic available for the June meeting.

WORDPERFECT

2ND MON

SIG Leader: Jim Pieratt 714/969-4782
 SIG Leader: Taoward Lee 714/646-5557

WordPerfect is a popular and powerful word processing program suitable for both beginners and advanced users. The July topic will be desktop publishing with WordPerfect 5.0.



COME CHECK
OUT OUR NEW
SIG SPACE!

General Meeting Report

MAY GENERAL MEETING REPORT

Steve Dela

Paul Curtis opened the May General Meeting at 9:00 AM to an almost capacity audience. Among brief announcements was a reminder to all members that the new SIG meeting space opens on June 1st, and is located in Huntington Beach at 17632 Metzler, Suite 211. Most SIG meetings will be held there, but be sure to check the SIG insert before planning to attend.

Tom Sutro informed us of the Honors Night ceremony, held at Orange Coast College, that he and other group officers attended. At this event, a scholarship for \$500 from OCIPUG's Tim Smith Fund was presented to Carmen Remy to further his studies in Computer Science.

A need was discussed for a club member, expert in marketing, to prepare brochures and other literature. If you have an interest, please contact Paul Curtis.

Dave Lorenzini opened by introducing Alan Crafton of Telesensory Corporation, a company which specializes in products for those visually impaired and physically challenged.

VISTA hardware upgrades any normal PC to enable the size of text characters to be adjusted for a monitor display. Designed for both text and graphics, it features autoscroll with wordwrap. The demonstration emphasized how this product improved worker production by control of the environment. The VISTA product lists at \$2095.

The VERT+ product combines hardware and software to allow verbal output for data entry and retrieval by the totally blind.

Output can be to a speaker or to headphones. Vocal clarity was much superior to that from synthesizers previously demonstrated to OCIPUG. Its optical character recognition can be trained to recognize misspelled words, and pitch, tone, and inflection of the synthesized voice can be controlled. With members' names, the equipment accurately pronounced, with proper inflection, all except a very difficult foreign name.

The NAVIGATOR product is an electronic stand on which a laptop computer is set, with a tactile sensory bar in front of the keyboard. This bar feeds Braille characters to the finger tips of the operator - literally, a paperless Braille output which uses either twenty or forty-column format. A custom-built stand exists for each laptop model currently in production. The price is \$6000.

Members thanked ALAN for his fine demonstration, which emphasized that computers are really for everyone.

After the break, Dave Lorenzini introduced John Goodman, who spoke on the topic of Personal Computer Maintenance. John stressed that at some time you will be faced with some unexplained problem with your computer. How you are able to deal with that problem will depend on your previous efforts to protect your hardware and data. A list of what parts are in your computer, and when you acquired them, is essential. Along with that list, frequent backup of data is mandatory before you read that fatal message, "Abort, Retry, Ignore, Fail."

If you have a problem, write down all its symptoms immediately. Check all obvious reasons: no 120-volt power, not plugged in, or anything out of the

ordinary. If the problem persists, call the store where you purchased the machine, if it is under warranty. If it is not, contact a repair person or consultant. Of course, OCIPUG members can tap the huge resource of talent in other members, but please don't abuse this benefit.

John emphasized keeping a trouble log to identify ongoing problems. If the computer fails completely, consult this log for the last known symptoms. Go through a step-by-step process to identify the problem. If you must look inside the computer, be sure to turn off power before opening the case. Take note of anything which looks unusual inside, such as burn marks or discoloration, and note any peculiar smells. John handed out copies of excerpts from his very able presentation.

Within OCIPUG, the New User, Hardware, and DOS SIGs may be able to help. Hopefully you will not experience any problems soon, but take precautions before you do.

To meet a tight schedule, both Random Access and the raffle were delayed until the June meeting. See you on June 24th, but make it a point to check out a SIG meeting at the new facility.

PLEASE NOTE.....

It has been brought to our attention by Teresa Warsop, Manager of the Technical Support Dept. of Central Point Software, that our article last month on PC Tools Deluxe Ver. 5.0, contained erroneous price information. The \$25.00 price quoted for owners of Sidekick, Norton Utilities, and similar programs was a promotional price and is no longer available. It now retails for \$79.00. However, the upgrade for owners of the previous version of PC Tools remains at \$15.00 plus \$5.00 shipping.

BORLAND and MICROSOFT GIVE THE WORLD NEW PASCAL COMPILERS

This special feature double-size column from Steve Gibson introduces two new Object Oriented Pascal Compilers from Borland and Microsoft. Steve had them months ago, and was able to take a good look behind the scenes. This column is also the first in his new series on Object Oriented Systems. Object Orientation is all the newest rage, and is the key behind the inner workings of Smalltalk, Windows and OS/2 Presentation Manager. Over the next few months Steve will be explaining the operation of this new technology. (Editor)

With all the recent well-deserved attention object oriented programming has received, you might not be surprised that our industry's two leading language vendors, Borland and Microsoft, are preparing to lock horns over a new high-stakes turf: Object Oriented Pascal. In the case of Borland, the pending release of Turbo Pascal version 5.5 represents another significant step forward in the evolution of the language which put Borland on the map. Whereas in Microsoft's case, their forthcoming Quick Pascal language is Microsoft's first full-screen-interface Pascal compiler/environment. As a consequence of my last four columns which discussed object oriented programming, Borland and Microsoft have each provided me with Beta releases of their new unreleased products, along with full permission to discuss them in detail here.

Interestingly, the two new Object Pascal languages, thankfully similar as a consequence of some common heritage, differ as greatly in detail and design as do their parent companies. As the richness of any expressive medium increases, new

modes, means, and subtleties of communication within that medium are increasingly supported. In using English, for example, some people lean toward the terse use of few words over the more loquacious forms used by others. And though in each case the message gets through, there's a general acceptance of the need to fit form to circumstance. The point is that no one usage can be attacked as being wrong, any more than it can be defended as the only one which is right.

As I've examined the similarities and differences between Borland's and Microsoft's new Pascal language offerings, and as I've spoken at some length with each of the language's design teams, I've seen that each company has come to view and support its approach with an almost religious fervor. As a simple consequence of the complexity of the territory, and the fact that there are many ways to solve most problems, there will not be any winner or loser. Moreover, neither side can really be more right or wrong in their approach than the other. So, although I intend to share those opinions which I have reached, I hope to largely leave you with an understanding for the history and flavor of these two languages, as they are both excellent products.

The lineage of most contemporary object oriented languages is readily traceable, with very few interceding generations, to Simula, the granddaddy of object orientation. Simula was developed at the Norwegian Computing Center in the 1960's by Kristen Nygaard and Ole-Johan Dahl. Nygaard and Dahl wanted to model real-world systems, and so developed Simula to help them simulate the interaction of real-world objects. The Smalltalk language developed by the learning research group at Xerox PARC is one of the direct descendants of Simula.

When the members of Apple

Computer's original LISA design team received their historic Lisa/Macintosh inspiration from their visit to PARC, they came away with more than a vision of windows, mice, and icons. They also saw that applications implemented for such a system could benefit from the internal use of objects. Then, rather than creating yet another object oriented language from scratch, Apple's engineers decided to enhance Pascal, the most popular structured language of the time. The resulting CLASCAL language (pronounced Class-Cal') was a hybrid, resulting from grafting the concept of Smalltalk's object oriented CLASSES onto Pascal's foundation.

When Apple began the development of their second generation graphics-environment machine, the Macintosh, they decided to develop a second-generation application implementation language with object oriented extensions. Wanting the best possible language for their new machine, Apple invited Pascal's designer Niklaus Wirth to Cupertino. The resulting language, which Apple dubbed OBJECT PASCAL, is the result of the combined efforts of the original Lisa Clascal design team and Pascal's father, Niklaus Wirth. In many ways Object Pascal reflects the best of several worlds, melding Apple's extensive experience, with object oriented Clascal, with Wirth's original Pascal vision. I remember being struck by the simplicity and elegance of Apple's Object Pascal extensions the first time I saw them.

Given the distinguished heritage of Apple's Object Pascal, it comes as no surprise that Borland and Microsoft both independently decided to use it as the basis for their new Pascal language offerings. I think the idea of introducing the industry to object orientation with an extended Pascal is exactly correct,

since this approach allows us to build upon a familiar and comfortable foundation, rather than forcing us to adopt a totally new system from scratch. Also, unlike a pure object oriented language like smalltalk, where everything is an object, the hybrid extended Pascal approach allows object orientation to be applied only where needed. Thus objects can be used not-at-all, sparingly, profusely, or exclusively, as warranted by the application.

One of the fundamental concepts of object orientation, which we'll be discussing in following issues of this series, is an object's encapsulation of its own data and executable code. In object oriented parlance, a piece of executable code is referred to as a METHOD. Therefore, it is true that an object consists of an encapsulated collection of its data and its methods. Methods are literally the means an object uses for performing the tasks requested of it.

The Pascal language provides a means for collecting a group of individual data variables into a single collection, known as a record. The concept of a record will be familiar to anyone who has worked with database systems. Loosely defined, a record is a set of data variables, of various types, which can logically be taken together as a whole. If a record were to have a name, like "Circle" for example, then Pascal provides a means for referring to an element of data in the Circle record. By joining the record name and the data element name with the "period" character, it is possible to refer to an element of Circle's data. So, in our example, "Circle.Radius" could refer to the Circle record's Radius variable, while "Circle.Color" could refer to its color variable.

Object Pascal elegantly extends the concept of a record to include a collection of executable functions and procedures. The result is something new to Pascal: the

OBJECT. An object is nothing more than a record which is able to contain executable methods, in addition to standard data fields. From our example above, if the Circle object contained methods for drawing and undrawing itself, called "Show" and "Hide" respectively, then Object Pascal would allow us to invoke these methods with the notations Circle.Show and Circle.Hide.

In the somewhat awkward (and, I think, unfortunate) object oriented terminology which Smalltalk defined, Show and Hide would be methods belonging to the Circle object, and performing the command Circle.Show would be referred to as sending the Show message to the Circle object. This is one area where Microsoft and Borland have diverged. Microsoft has chosen to adopt this unfortunate terminology, while Borland has deliberately chosen to avoid it.

Up to this point, everything I've discussed has been equally true of both object oriented language offerings. Let's now examine their differences.

As nearly as I can tell (and guardedly confirmed by Microsoft), the syntactic and semantic design of Microsoft's Quick Pascal closely mimics the definition of Object Pascal as established by Apple. This has the advantage of drawing upon an established and proven linguistic foundation and could potentially ease the cross transportation of Macintosh and IBM PC program code. Although Microsoft has also guardedly confirmed the feasibility of inter-environment code transportation, I feel that the respective environments are so dissimilar that the most which could be transported would be a product's intrinsic design. However, design transportation alone could still yield a significant manpower savings.

Borland has taken a different route with the design of their

object oriented Turbo Pascal 5.5 product. Perhaps they feel a somewhat greater freedom to extrapolate as a consequence of their current Pascal language market domination. In any event, Borland has not only drawn from Apple's Object Pascal, but also from another increasingly popular object oriented hybrid language, C++.

Since Borland knew that their resulting object oriented Pascal would not be strictly Apple Object Pascal compatible anyway, they freely altered many subtle but significant aspects of Apple's extensions which Microsoft chose to mimic without alteration. Consequently, even those common portions of the language which Borland borrowed have been implemented somewhat differently. I have not examined the semantic differences well enough to either support or disclaim Borland's statement that these aspects of their implementation are superior to Apple and Microsoft.

The C++ "C" language extensions, and thus Borland's Turbo Pascal 5.5 where it has borrowed these concepts, offers a number of interesting and potentially useful additions to the existing Object Pascal implementations. For example, Microsoft's Quick Pascal only offers Apple-compatible objects which are dynamically created during actual program, through a mechanism known as late binding. Turbo Pascal 5.5 provides a similar late-bound dynamic object facility, but also supports C++'s faster early-bound statically created objects. TP 5.5 has also expanded upon Apple's implementation by simplifying dynamic object management through the use of C++'s object CONSTRUCTOR and DESTRUCTOR concepts. A detailed look at these issues will be the subject of next month's Tech Talk column.

So we'll soon be teething upon a

pair of beautiful new object oriented Pascal languages. I can't think of a better way for us to get our feet wet with soft objects.

Next month, we'll begin delving more deeply into the technology of these new object oriented systems.

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ORANGE COUNTY SCIENCE & ENGINEERING FAIR

Harv Haight PE

From May 1st through May 6th, students from Orange County junior and senior high schools submitted project entries to the 34th Annual Orange County Science and Engineering Fair, held at CAL STATE FULLERTON.

Why should this interest OCIPUG? For one thing, OCIPUG's John Goodman has worked with such fairs for ten years - this time he directed judging of exhibits on May 3rd. And, among others, OCIPUG members Paul Curtis, Dan Likens, John Lunsford, Steve Gibson, and Harv Haight served as judges, together with well-qualified scientists, engineers, and educators from local industries and universities.

Lunsford headed the six-man team which checked "junior engineering" exhibits; Haight was a member. All of us were tremendously pleased by the attitude of the young exhibitors and were impressed by the hard work which went into the exhibits. We were impressed also by the way CAL STATE FULLERTON regarded both the fair and the judges; all of us came away with the warmest of feelings.

As an editor, I recognized the hand of John Goodman in the fine documentation supplied exhibitors and judges; OCIPUG should be very glad to have him on our management team.

LIBRARIAN'S CORNER JUNE 1989

Bonnie Ulanovsky

Prior to the Shareware SIG meeting last month, I had an opportunity to talk with Mr. Gordon Wanner, Director of Marketing for Omniverse Software Corporation, developers of GALAXY. GALAXY has been rated among the top word processing programs by several major national magazines this past year. Some of our conversation centered on the need for registration.

I know that the majority of readers of our newsletter are familiar with the shareware concept, and they know that these programs are not free. The \$3.00 fee paid for copies from the OCIPUG library is merely a copy fee, that helps to offset cost of acquiring and producing these copies, and is NOT the registration fee. Registration forms are available on each disk, to be sent directly to the author. If you've had a program for a reasonable amount of time, and find that you

use it consistently, then it's definitely time to send in the license fee. Where else does one have such an opportunity to make an informed selection of software? By trying it first, you know whether or not it suits your purposes.

As Mr. Wanner pointed out, many developers of shareware programs invest many hundreds of thousands of dollars in hardware and software to create their programs. If shareware is to survive, these resources and programming costs must be paid for by sale or licensing of the product.

Take a look at your hard disk. Do you see shareware there that you couldn't do without? If you haven't registered it, do so now!

At the risk of being redundant, I'll sign off my usual way:

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SIG Reports

ADVANCED HARDWARE SIG

Kim L. Betterley

At the May 18th meeting of the Advanced Hardware SIG, held at Advanced Computer Products in Santa Ana, the main topic was the EXPboard, which provides a buffer between the computer and external electronics.

The EXPboard is a programmable extension of the computer data and address busses, using a modified parallel port to access up to 256 addressable external cards. By cutting one trace and installing one jumper, it can be modified to a parallel card, capable of bidirectional communications, which remains IBM-compatible.

In addition to a protracted discussion of EXPboard operation, a brief description was presented of the operation of AND, NAND, OR, NOR, Exclusive OR, and Exclusive NOR logic gates. A useful comment recommended driving an indicator LED from an inverting buffer, connected to +VCC through a resistor, to preserve circuit logic for an active-high signal source.

This SIG is dedicated to design and use of interfaces and electronic circuits to expand computer usefulness. OCIPUG members are welcome to participate in our design and construction of projects.

DOS SIG

Preston Hill, PhD

Ten advanced computer users, led by Steven Pierce, held a seminar on "Undocumented DOS Functions and Data Structures" during the DOS SIG meeting on 6 May 1989, from 12:30 to 4:00 PM, at Advanced Computer Products. Ray Smith presided.

Ray is a systems analyst with Smith, Brittain & Associates of Costa Mesa. He entered the computer field initially as a programmer on main-frame computers. Deciding that accounting and other applications were boring, he delved into the operating systems themselves. After nineteen years (with five at IBM), he now develops, modifies, and troubleshoots specialized operating systems for corporate and other computer users.

Many of us modify DOS and our applications programs to fit specific needs. Few even know where to begin to modify the actual operating system.

The system designer incorporates functions which can be changed without affecting the Application Program Interface. The OEM uses these functions to develop and test specific ROM BIOS instructions which allow MS-DOS to run on computers not 100% IBM compatible. These functions may be used exclusively by the operating system kernel and are not included in IBM PC-DOS or other API references (and are thus "undocumented").

Ray's input dealt primarily with Interrupt Service Routines, the BIOS interface, the DOS kernel, and the replacement of COMMAND.COM for specific needs. Each of these interfaces sequentially and ultimately with the Transient Program Area where the programs we use operate.

He described briefly eleven undocumented functions, two undocumented interrupts, and five undocumented data areas. The 16-byte Memory Control Block chain is a one-way linked list DOS uses to allocate memory for various processes and data structures. It contains the segment address of the Program

Segment Prefix (sometimes called the Process ID), generated by COMMAND.COM, which allows DOS to locate specific programs in memory. Among other things, the PSP contains the File Handle Array that allows DOS to manage opened files and devices.

If a program relies on undocumented data that is relocated or eliminated, it will not work in a subsequent release of the operating system. To assure downward compatibility with prior versions, segments of instructions may often be retained to avoid alteration of other code or data. Each revision thus grows in size. DOS still provides function calls that ease the porting of CP/M programs to the DOS environment.

Ray distributed to attendees a thirty-one page summary list of the undocumented features of DOS. DOSLIST.ARC (or the shorter DOCLIST.ZIP) on the OCIPUG RBBS has a complete disassembly of PC-DOS 3.30, intended primarily for advanced programmers.

Other topics discussed by Ray included the conservative settling time assigned by IBM to assure 100% reliability of read/write for fixed disks, the checking by Cyclic Redundancy Checks and Error Correction Codes for data validity, and the use of CRC by some software to prevent unauthorized product modification.

Ray indicated that DOS is essentially a single-tasking monitor and file manager, whereas OS/2 is a full fledged multi-tasking operating system. In comparing the two systems, some "benchmark tests" do not evaluate the true benefits of OS/2. For example, the MS-DOS boot-loader requires IO.SYS (or IBMBIO.COM) and MSDOS.SYS (IBMDOS.COM) be first on a disk and contiguous; OS/2, without this restraint, allows two operating systems to coexist on a fixed disk, with user choice as to power-up or reset. New operating systems to make better

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use of processors such as the 80386 may sacrifice downward compatibility with the 80286, 8088, and 8086.

Ray pointed out that people routinely pay for information that they could get easily from software documentation or available from Crown Books and B. Dalton Bookseller. He recommended that users examine such reference material before calling a consultant.

HARDWARE SIG

Kim L. Betterley

At 7:00 PM meeting of the Hardware SIG held on April 20th, at Advanced Computer Products in Santa Ana, Dan Likens demonstrated an AT-compatible with the 6/12.5 MHz Western Digital WDM20 mother board. The WDM20 supports up to 4 MB of SIMMs, an onboard Paradise EGA, an MFM hard disk controller with 32 KB of RAM cache, a floppy disk controller to support 1.44 MB 3-1/2" disks, 1 parallel and 2 serial ports, and an IBM PS/2 mouse connector. These features can all be disabled to add expansion boards to the I/O bus. Dan had not yet tested if RAM could operate as LIM 4.0 expanded memory. Street price with 0 MB memory runs \$500-\$600; 256 KB SIMMs go for \$100 each, and 1 MB SIMMs, for \$250 each. The WDM20 takes 4 of either type, in pairs because of the 16-bit data bus.

DRAM prices finally are coming down, typically from \$13-\$15 to \$7.50-\$7 each (100 nSec). Increases may occur when High Definition Television starts up, with up to 100 MB per set. Of the three American DRAM manufacturers (Micron Technologies, Texas Instruments, and IBM), IBM does not wholesale to the open market. Present chip densities are at 4 Mbit, with current research on 16 and 64 Mbit chips.

Intel is sampling its 80486 at

\$950 per chip; the 80486 features a floating point number processor, onboard prefetch RAM cache, and an instruction set almost as fast as a Reduced Instruction Set. At its current clock of 33 MHz, the 486 is said to be three times as powerful as the 386, with future clocks predicted of as high as 60 MHz. Intel claims the RISC version of the 486 (the N10) is 3 to 7 times faster than the 486, but is not PC compatible because of this different instruction set. Controllers are now appearing which support all PC-compatible 5-1/4" and 3-1/2" floppy drives. "Compatocard" by Dostech Systems of San Jose was advertised in the February 1989 "Computer Shopper Magazine." Western Digital markets a board to enable more than two floppy drives. Use caution: no first-hand reports on either card! Dan explained how batch commands can rewrite AUTOEXEC.BAT or CONFIG.SYS files for special environments, can follow up by rebooting, and can then restore readily the original files. He also described redefinition of keyboard keys by use of ANSI.SYS, to execute programs with one key stroke.

Using the AT-compatible with the WDM20 and a Sumagraphics digitizer, an ATI VGA-Wonder 16-bit video card, and a Multisync II display, Dave Carroll closed by demonstrating PICTOR, a VGA paint program packaged with Paul Mace Utilities GRASP, a graphic animation program (street cost from \$65-\$85).

Knowledgeable members at the Hardware SIG or the Advanced Hardware SIG welcome you and your hardware-related questions (or answers).

PC NETWORKING SIG

Jim Mansfield

The PC Networking SIG met on May 18th at the Costa Mesa

Learning Center to hear from George Carmack of Macrovisions in Orange about NETWORK OS, from CBIS Inc. George offers Novell's NETWARE for larger network installations, but feels that NETWARE is not warranted for smaller installations, and that NETWORK OS fills the bill for the smaller user. He prefers NETWORK OS to such other low-end products as LANTASTIC, because NETWORK OS can utilize standard ETHERNET, ARCNET, and TOKEN RING interface cards.

NETWORK OS is easy to install, can support up to 32 users per network, and uses standard MS-DOS disk format (NETWARE does not). NETWORK OS has good printer spooling, and network printers can connect to any work-station. NETWORK OS is easy to purchase and install, and CBIS offers good telephone support.

George drew on his 10 years as an independent computer systems dealer to discuss utilization of PC memory, network data backup, the future of mainframe computers, and other network-related topics. Our heartfelt thanks to George for his visit with us! George can be reached at 974-0343.

The PC Networking SIG will not meet during July and August, but will resume meeting in September. Have a great summer!

SPREADSHEET SIG

Neil Carmen, Designated Geru

Thirty four members and one guest attended the June meeting, held at our new OCIPUG headquarters on Metzler Lane in Huntington Beach. We have a lot of work to make the space into what it should be, but we've started something great.

We thank Kathy Lessley and John Sicola of AST for use of the 3-beam projector and for the Rampage memory card donated by AST as a raffle prize. We also

thank Rick Taylor of Microsoft for demonstrating EXCEL and for donating a copy of EXCEL for the raffle.

The meeting began by reviewing such AST products as the AST Bravo and the AST Premium 386/25. In a demo of EXCEL which followed, several examples were given of how to undo commands when a mistake has been made. With LOTUS 123, to approach the powerful functionality of EXCEL, print and screen enhancements would be needed, as well as a graphics package. Even at twice the cost of EXCEL, you could pay more and still not have a totally integrated package.

The Rampage card was won by Kevin Moser. The EXCEL program was won by John Alesi; his prize was well deserved for his work in organizing the meeting, which was an excellent way to kick off the new SIG location.

Keep your columns and rows in order!

SHAREWARE SIG

Bonnie Ulanovsky

Twenty members attended the Shareware SIG meeting at the Chemistry Auditorium of Orange Coast College on May 13th at 10:00 AM.

Arthur Saltzman demonstrated John Newlin's SCOUT, a DOS shell and hard disk manager, and Anthony Fedan demonstrated Omniverse's GALAXY, a word-processing program.

Saltzman is a professor of marketing at Cal State Riverside who has great interest in the Shareware marketing concept. Fedan is a principal in Low Tech Computers, a hardware/consulting firm in Mission Viejo which is an authorized GALAXY dealer. The elegantly designed SCOUT program has an abundance of easily used features. Memory-resident SCOUT can be

invoked from within any applications program to perform necessary housekeeping, and then return to the applications program. SCOUT's other features include a pop-up calendar; capability to format both 3-1/2 inch and 5-1/4 inch floppies (either double or quadruple density, depending upon hardware), using defined hot keys; capability to view system memory allocation, to print CGA graphics screens, to save screen images to text file, and to strip Wordstar files during copy. In developing SCOUT, Newlin sought to minimize keystrokes; most commands require a single stroke. Anthony's demonstration of GALAXY took the form of a hands-on tutorial: one member of the group as student, and Anthony as instructor. A great technique which proved how incredibly easy GALAXY is to learn and to use. GALAXY's extreme speed results from its residence in RAM. Commands may be chosen from pull-down menus, or invoked by quick codes, or can be in WORDSTAR format. Unlike WORDSTAR, GALAXY produces pure ASCII files. For those who

haven't tried GALAXY yet, Anthony's presentation was a powerful argument to examine this excellent word processing program. The registration fee is \$59.95. According to Anthony, a major update in fourth quarter 1989 will contain 80% of the features of WORD PERFECT; update fee for registered users was quoted as \$25.00. Anthony's grasp of computer skills was demonstrated further by his answers to queries. After a random access period, the meeting ended with a raffle of a registered copy of Buttonware's PC-CALC. The July meeting will feature demonstrations by Larry Wasserman of his SUPER UTILITIES package. In the August meeting, Dave Carrol will focus on shareware graphics packages.



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Technical Corner

GENERAL RULES OF ETIQUETTE FOR A BBS

*John Coon, SYSOP Software Exchange
(714-552-3515)*

If you wish to stay welcome on whatever system you happen to call, it would be to your advantage to observe these few rules of general BBS etiquette.

1. Don't habitually hang up on a system. Accidental disconnects happen once in a while, but SYSOPS tend to be annoyed with people who hang up every time because they are either too lazy to terminate properly, or they think the 10 seconds they save on line is going to cut their phone bill. "Call Waiting" is not an acceptable excuse for long; if you have it, when using the line to call BBS systems, either have it disconnected or find some other way to circumvent it.
2. Don't leave dumb messages like, "Just testing to see if this thing works." Where do you think all those other messages came from? Or messages which whine, "Please leave me a message." If you want messages, read ones already on line and enter conversations that exist.
3. Don't use a chat command unless you know what you want to say and why. Most SYSOPS will answer questions about the system, or offer help. SYSOPS dislike answering a pager to chat about the time of day.
4. When you are offered a chance to comment when exiting, don't use this to ask the SYSOP questions; it's rude to other callers for the SYSOP to carry on a half-visible conversation with someone. Make any statements or questions in the section for messages. This is much less of a

burden on the SYSOP.

5. Log on with your favorite pseudonym only if the SYSOP allows the use of handles. Make yourself responsible for what you say.

6. Log on properly. Don't use abbreviations for cities or locales which are not accepted by a post office or telephone book. People from all over the country can contact a BBS; the SYSOP has no crystal ball.

7. Don't make uncalled for criticisms. Each BBS trades off features. If someone runs a particular brand of software, he either is happy with it or plans to upgrade it as soon as he can afford time and money. A good SYSOP welcomes constructive criticism or technical help. Don't stop that!

8. When leaving messages, ask yourself if it must be private. Unless it REALLY is essential, keep in mind that most BBS are PUBLIC, and blank spots irritate callers and stifle interaction.

9. If your favorite BBS has a time limit, observe it. If it doesn't, set a limit for yourself and abide by it. Don't tie up a system until it finally kicks you off, and then call back under another name. This same rule applies particularly to downloads. The SYSOP or the BBS sponsor can and will adopt more stringent policies if callers cheat or abuse privileges.

10. Don't call a BBS just for a look at a list of other BBS numbers. Not very complimentary to the SYSOP, is it?

11. Read the questions asked by the BBS display. Watch how you spell your name or password. And don't ask how to operate the system without reading instructions available in bulletins or announcements.

12. If you find an error while on-line (Heaven forbid!), ALWAYS take time to leave the SYSOP a message describing the circumstances. Don't just say, "There was an error." What he needs to know is what you were doing when the error occurred, so that he has some chance of finding and correcting the problem.

13. Don't be personally abusive. So you don't like him, or think he's a jerk. Remember that he has invested time and money to make his computer and programs available, usually with no charge. It doesn't take much effort to sign off. Just leave politely.

14. You have no basic right to log on to a BBS; you're in effect a guest. You'll please him if you act like one.

ENTERING DATES WITH LESS FUSS?

by Paul Lindsay (#791)

In the United States dates are usually written as MONTH, DAY, YEAR, or occasionally in the European or Latin language pattern of DAY, MONTH, YEAR. I find entering dates as 02/01/89, 01/02/89, 02-01-88, or 01-02-88 (for example) confusing, especially in dealing with several countries. Envelopes from Canada may be stamped 10-IX-88, and that may lessen confusion, but one still has the awkward callout of October. Finally, use of separators like "/" or "-" signifies a need for 8 characters.

Let us consider the classic order of DAY, MONTH, YEAR. Let the DAY and YEAR stay as they are, but the zero before days 1 through 9 will not be needed. Represent the month as a single letter between the DAY and YEAR. With only 12 symbols needed, there is no need for separators,

with a maximum character count of 5. The first letter of many months can suffice, such as J-anuary, F-ebruary, M-arch, and A-pril. This applies to the latter months of the year: S-eptember, N-ovember, and D-ecember. "O" for October could be confused with the number zero; let's choose "C" or perhaps "K."

The first letters of the months May, June, July, and August already have been allocated. Why not choose "G" for AuGustus and "L" for JuLius? The "U" in JUne could serve, while the "Y" in MaY is prominent both in English and Spanish.

Having solved this problem, we're about through! We have a single letter for each of the 12 months, to write our dates on newspaper clips, in spreadsheets, on notes, etc, using a maximum of 5 characters. Our choice seems fine for many European or Latin languages as well:

J for "J"anuary	Y for Ma"Y"
S for "S"eptember	U for J"u"ne
F for "F"ebruary	M for "M"arch
C for O"C"tober	J for Ju"L"y
N for "N"ovember	A for "A"pril
G for Au"G"ust	D for "D"ecember

Most software could incorporate this nomenclature. In some data files, like checkbooks, byte allocations could be reduced substantially, although that would hardly justify our dissertation here.

As examples of this rather simple system, consider 29A89, 29F88, 5G87, 13U82 you could get used to it pretty fast.

SHARWARE VERSION OF POST OFFICE ZIPCODE DIRECTORY

H. F. Haight PE

The major complaint voiced by OCIPUG members about README.DOC is that sometime delivery postdates the appropriate

general meeting.

As one with a P.O. box for over twenty years at the Costa Mesa Post Office, from which README.DOC is mailed, I assure each of you that adequate margin for delivery is allocated by the README.DOC staff (despite quite unreasonable deadlines). When I have noted poor timing for input to my box, I have complained to the postmaster, generally with fair results. Each time, however, I listen to a long tale of how the average mailer doesn't follow postal rules, especially with respect to ZIP codes.

Each year the Postal Service publishes a 2-1/2 inch paperback volume called the "National Five-Digit ZIP Code and Post Office Directory." In addition to this, there is a fantastic variety of computer tapes and specialized computer compilations available. The shareware program ZIPKEY, from Eric Isaacson Software of Bloomington, Indiana, attempts to make available to the PC user some of the features of this directory. ZIPKEY can be registered for \$30, which includes a fully-updated disk and a printed manual. Isaacson has a complex way of charging for licenses, differing on whether the non-resident or TSR modes are used. The program appears on the OCIPUG BBS as ZIPCODE.ARC and downloads without incident.

ZIPKEY is a complete city-level directory of 5-digit ZIP codes, combined with a keyboard enhancement program. It permits a search by ZIP code, state-and-city, or city-only. In an optional TSR mode, ZIPKEY can be invoked from within any other program in a configurable format. It occupies 128 Kbytes of memory. Within its stated limitations, ZIPKEY seems to work well and could be considered a useful asset to those who write or sell.

Ray Smith's DOSLIST.ARC

Harv Haight PE

In mid-April DOSLIST.ARC was uploaded to the OCIPUG BBS by OCIPUG member Ray Smith, its author. This is not only a valuable contribution to our members; it can also be an excellent introduction to the advantages of Phil Katz's PKUNZIP program.

The DOS.LST document which "unsquashes" from DOSLIST.ARC is 926,129 bytes long, and its reduction to archived form saves 64% of disk space (338,266 bytes). As DOSLIST.ARC, it is impossible to download directly from the OCIPUG BBS within 60 minutes; I had to upload a program to gain an additional six minutes of ON-time.

When PKZIP is used to re-archive DOS.LST, the file DOCLIST.ZIP occupies 295,380 bytes and squeezes readily into a fast-moving download session. For that reason, I've uploaded DOCLIST.ZIP (not edited) to the BBS and I suggest those interested choose it, rather than DOSLIST.ARC.

There's much of interest in DOS.LST. In Smith's words ("IBM PC-DOS 3.30 Analysis"):

"This disassembly was performed on an IBM PS/2 Model 80-071 running IBM PC-DOS 3.3. The segment addresses for DOS may be different for your system, but the offsets will be the same All of the undocumented features I have discovered exist in all IBM PC-DOS releases, except where noted. This listing contains several heretofore unknown features/functions/ data areas. If you experiment with any disk related data areas, exercise extreme caution. Comments, corrections, suggestions are welcome. Enjoy!"

Those who find this file interesting are referred also to the April 1988 issue of BYTE

magazine: "Under the Hood: The IBM PC BIOS," Brett Glass, pp. 303-310. Smith's file and this article are definitive for the IBM-PC technical aficionado.

COMPUTERIZED LOTTO

Harv Haight PE

A recent news item in the Orange County Register says the average yearly sale of LOTTO tickets, since LOTTO's inception in 1986, has been \$80 per Californian. As a game player limited to a mediocre game of computer chess or solitaire, I've regarded my buck a shot as a tip of the hat to fate, choosing the "quick-pick" option. In the computer blurbs, sure-thing lottery-winning programs have started to abound. Currently, Bonnie Ulanovsky's library sheet lists LOTTO FEVER (based on astrology and numerology) and LOTTO MASTER

PROFESSIONAL (takes a statistical approach), both SHAREWARE.

As an engineer, I've toyed often with the notion that small physical differences in the LOTTO balls might effect selection of winners. I know many other variables are unaccounted for, but knowing those numbers which show more often might lower the horrendous odds a player faces.

By a self-addressed stamped envelope to California State Lottery Commission, Orange District Office, 840 North Eckhoff, Orange, 92668, I got an accurate listing of winners from 18 October 1986 to the present, (WININGNO.DOC in somebody's computer). A program I generated using Lotus 1-2-3 just didn't do what I wanted, but the professional programming of LOTTO MASTER did the job very well. LOTTO MASTER's sample 20-game history had errors; I'd register the program, but would trust the Commission's data more

than the full listing promised with registration.

Selecting most frequent choices from a sliding window of 20 games quite often matched game sequences, two out of six. Unfortunately, this would not pay off in my buck a game philosophy. The most interesting result was the match fairly often between game results and the list of ten most frequent choices overall in the 142 games from 2 January 1988 through 20 May 1989. These were 1, 7, 10, 11, 16, 17, 26, 32, 33, and 37. LOTTO MASTER can sort into matrix proposed sequences for either seven or twenty-eight bets. Perhaps you might get into the big-time with the use of LOTTO MASTER as a guide.

The figures I've used in my evaluation appear on the RBBS as LOTTOREP.TXT. I'll continue at a buck a throw, but I think I'll choose from the list above, rather than using "quick-pick."



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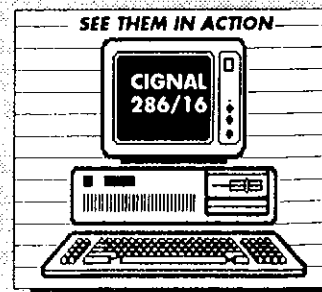
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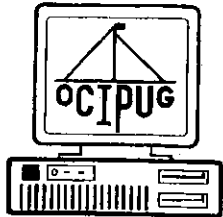
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Orange Coast IBM-PC User Group

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This form has been designed as a self-mailer. Simply remove this whole page carefully, attach your check for **\$36.00**, then fold the page in thirds, add postage and mail it. We are not asking a whole lot of questions, but we need you to answer each one we do ask.

New Member or Renewal

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We can mail the newsletter, etc., to either your home or work address. Please fill in here the one you wish to have us use.

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The above information will only be used internally for our membership functions, including mailing out the club newsletter. We may also publish a membership directory, but if we do you may be included in it or not, at your option.

You may list me in the Membership Directory: Yes ___ No ___ You may print my address: Yes ___ No ___
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	Andrea Davis	Gregory Gilles	Richard McKenzie	Cliff Stanton	
	John Davis	Richard Harris	Arnold Montgomery	Linda Trower	
	Hobie Denny	Allen Kaplan	Marlene Montgomery	Lee Tussing	

The following memberships expire in June:	Deborah Bright	Steve Davis	Pearl Hollander	Craig Miller	Alice Sibert
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The following memberships expire in July:	Jim Brock	Kay Evans	Michael Krieger	Jim Petit	Eric Sorensen
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OCIPUG Financial Report

Jerry DeAinza, Treasurer

OCIPUG May, 1989 Changes in Cash:

	Unrestricted Funds	Tim Smith Fund
Cash balance, April 30, 1989	\$10,313.02	3,981.86
Cash receipts		
Membership dues	945.00	
Advertising	726.50	
Interest		
Contributions, Tim Smith Fund		
Library fees	253.33	
Total Receipts	1,924.83	
Cash disbursements		
Meeting expenses	250.48	
Printing	856.20	
Postage	198.49	
Equipment		
Telephone	19.25	
Supplies	90.00	
Total Disbursements	1,414.42	
Cash balance, May 31, 1989	10,823.43	3,981.86

1988-89 OCIPUG Board of Directors

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Vice President	Tom Sutro	850-0474
Secretary	Richard Sabin	968-3539
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Steve Dela	1989	775-8373
John Goodman	1990	895-3195
Dave Lorenzini	1989	852-8663
John Lunsford	1990	995-0947
Richard Villa	1990	213-439-8110
Bonnie Ulanovsky	1990	646-5230

Newsletter Staff

Publisher	Steven Dela	775-8373
Editor	Jean Stevens	644-1017
Technical Editor	Harv Haight	546-0820
SIG Guide Editor	Richard Villa	213-439-8110

People and Numbers to Know

Programs	Dave Lorenzini	852-8663
Membership	Neil Carman	964-1901
SIG Coordinator	Dave Carroll	775-3130
Librarian	Bonnie Ulanovsky	646-5230
Bulletin Board	Richard Sabin	968-3539
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WellSpring (1200/2400/9600)		856-7996
Software Exchange (1200/2400)		552-3515
The End Of The Line (1200/2400)		645-6581
AST Research (1200/2400)		852-1872

OCIPUG Information & Message Line 843-2048

Future OCIPUG General Meeting Dates (1989)

Our General Meetings are held on the last Saturday of each month except when there is a conflict with a major holiday (asterisked months in list below).

January 28	February 25	March 18 *
April 29	May 20 *	June 24
July 29	August 26	September 30
October 28	November 18 *	December 16 *

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