

Review of the October meeting

Even the kitchen sink! WindowPhone, Professional Draw, FrameMaker

by Jackson Hibler

WindowPhone

Many years ago, I squirmed in the assistant personnel manager's seat of a super-market chain. With 2,000 employees in 60 stores in British Columbia, when I wasn't interviewing a stranger, I was talking to one on the phone. I had to remember quickly when we last spoke and about what. So I devised a simple system of 3 by 5 cards in a box...a long box...O.K., ultimately a tray...where I could write down names, dates and other pertinent details. As soon as I learned the incoming caller's name, I would pull that card up, refresh my memory, and usually be one jump ahead from a cold start! If I had to follow through on something, I would leave that card tilted up until I had done my part of the job, when I would put the card to bed. The system worked, was sufficient, and in the parlance of our present field of interest, was "totally configurable" (within the 3 X 5 user interface).

Modern convenience

Now it's October 1992, and I am told I can have my computer do all I did before and more, when WindowPhone does the configuring. The "more" includes the luxury of not answering, or *maybe* answering later. Using Bell's Caller-ID service, you can set WindowPhone up to vet — O.K., "prioritize" — your calls...sounds nicer, doesn't it? I had neither the interest nor the luxury of

not answering, back in B.C. in '69. But hey! This is Ottawa '92, eh? WindowPhone expands my 3 X 5 card to 32KB of notes, and even dials the phone. It does a whole bunch of other stuff too, everything but make the coffee it seems, and all for only \$695...\$395 for OPCUG members 'till November 30. Hmm, some of this "more" may be just a bit too much...

Professional Draw

Gold Disk...Amiga...Video Toaster...this company has quite a reputation. But what are they doing on the PC? I must admit I was not exactly looking forward to yet another draw demo when Kevin Connor began his presentation. I soon changed my mind.

The competition

During the past year we have seen the two leading drawing packages from Corel and Micrografx. One of the advantages of CorelDRAW over Micrografx Designer is the simple interface. Things are not buried in menus. Rather, the tools themselves are deep. Tapping that depth is still a matter of learning how to bring up the power beneath, but the power is there.

It stacks up

With Professional Draw, Gold Disk has carried that idea forward along two lines. Easier access to the depth, and even more raw power. Most tools have fly-out button bars that let you immediately select various configurations of that tool. The

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"draw" tool can be freehand...or bezier curves with control nodes automatically added...or nodes with the curves automatically added. Just click, click! You can group, naturally, but also ungroup when you need to adjust one of the group's members. Or you can slice through a whole group without ungrouping it. You can edit in full-colour mode. You can import most everything, including the product from other draw packages, and output to any

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Fonts and error messages

Terry Mahoney answers two questions placed in our question box at the last meeting.

Question: Why buy a fonts cartridge?

With the wide availability of TrueType fonts, etc. through Windows, why would you buy a laser printer with add-on cartridges?

Answer: Speed and upgradability

When you use software fonts, be they Truetype or some other alternative, you either spend time downloading fonts to the printer or printing in pure graphics mode. If the fonts are included in the printer, or in a cartridge, you skip the time required to transfer the fonts or graphics file to the printer.

Speed

A typical page of typewritten text contains about 2,000 characters or bytes, say 2KB. Downloaded fonts might be considered to average say 40KB a font. Transfer time to download fonts will depend on how many fonts you have used, and whether some fonts must be generated on the fly. If you used enough of them, and had enough printer memory, you could exceed the time required for a graphics page. You can, however, make downloaded fonts more time effective by only downloading them once, leaving your printer on, and only using those fonts.

Graphics mode requires 1 bit for every dot of resolution you use on your laser. Assuming 8" x 10" printable space at a resolution of 300 dots per inch, a graphics file comes out to 8 x 10 x 300 x 300 / 8 bytes which is 900KB, say one megabyte. Time to transfer a graphics file will be 500 times the transfer rate for character files.

Upgradability

Cartridges can also be used to allow you to upgrade your laser's ability to understand other printer languages. For example, a PostScript cartridge allows you to upgrade to a PostScript printer or reasonable facsimile thereof. Another common cartridge is one that upgrades your printer to understand HP plotter language.

Question: Critical error?

Manifest (MFT) tells me under the "interrupt" column that there is a critical error on int 24h in the COMMAND.COM file. How do I clear this?

Answer: No error!

There is no problem to clear. Quarterdeck's Manifest is actually telling you that software interrupt 24 hexadecimal is DOS' Critical Error Handler, and that it is owned by COMMAND.COM. Unfortunately, MFT leaves out the word "Handler" and looks like it is telling you that you have a critical error. You don't. Shortening the description to fit the available space eliminated the communication.

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Kitchen sink *continued from page 1*

Windows supported printer. And then there is desktop publishing...

DTP too!

No kidding, this package looks like CorelDRAW and Aldus Page-maker rolled into one. How well it is rolled together will require a closer look than we were able to get in thirty minutes, but at an introductory price of \$150 for OPCUG members till November 30, this one is definitely worth a look!

FrameMaker

All right, Gold Disk got us thinking about desktop publishing...now let's really get into it! FrameMaker is mega-mode desktop publishing. You can begin right at the beginning with full-featured word processing, progress to page layout, font

control, graphics...the whole process is integrated by FrameMaker. This much power does not appear to come easily, however. While it runs on Windows (as well as the Mac, Unix...everything, it seems) FrameMaker seems a bit like AutoCad: when you are in it, you are in its interface, regardless of the system. FrameMaker also takes us back to a menu-driven interface...big menus, long menus, lots of controls to learn...steep learning curve. But the power is there: tables any way you need them; "conditional" text for "creative accounting/reporting"; fully configured math/equation typesetting...and solving; electronic publishing! (I'm sure I saw a kitchen sink referenced on one of those menus that scrolled by...)

Multi-platform

Most important, however, may be FrameMaker's multi-platform presence. It doesn't help much if your print service bureau cannot run your files. This is something that Corel knows and Gold Disk may have to learn. FrameMaker is already there. Interesting. O.K., overwhelming!

Great offer!

Note: This mammoth presentation was brought to us by OPCUG member Glenn McCormack of Computique, Manotick (Tel: 692-1363). Until November 30, 1992, Glenn is letting OPCUG members have these products at his cost which is \$395 for WindowPhone, \$150 for Professional Draw, and \$395 for FrameMaker.

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November 24th we meet and swap

by Lynda Simons

Eric Clyde is taking care of our Swap Meet organization this year.

Taking place in the Cafeteria at Sir Robert Borden High School, the Swap Meet starts at 8:00 p.m.

From 7:00 to 7:30 p.m. Eric will be setting up tables. At 7:30, sellers can lay out their wares to be ready for the mad rush of buyers who will descend upon them at 8:00 p.m.

Sellers should look for Eric's table plan which he will post near the door to the Cafeteria.

What sells?

Don't know what you might be able to sell? Well, pretty much anything. However, remember that this is an IBM-PC compatible-based group. Last year someone tried to sell an old Atari and didn't have much luck. On the other hand, at the moment someone has a notice on the bulletin board that

Calendar *(subject to change)*

General Meeting Location: Sir Robert Borden HS
131 Greenbank Road

General Meeting Time: 7:30 p.m. to 10 p.m.

Date and Time	Topic and Location
Tuesday, November 24	See this page.
Tuesday, December 3 Start time: 7:00 p.m.	Fox SIG meeting in Jean Talon Conference Room, Stats. Can., Tunney's Pasture: Beginner's intro. to Fox, followed by material for more advanced users
Tuesday, December 15	Microsoft

they would like to buy a CGA board. So, if you have old components that you think are obsolete and worthless bring them along: they may have value to someone.

Who can sell?

Anyone is welcome to bring stuff to the OPCUG Swap Meet: you don't have to be a member of the group. However, it is a strictly non-commercial event: we cannot allow dealers to sell at the Swap Meet.

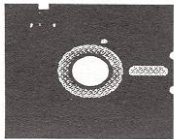
A word about software

Please only offer for sale the original diskettes and manuals of licensed software - unless it is software you developed yourself, of course.

SIG meetings

There will be no SIG meetings on November 24th as it is hard to know when the Swap Meet will end. However, we are having a December meeting this year (on the 15th) and the SIGs will meet again then.

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Super Software Sale



Clearance sale of older diskettes from the OPCUG Software Library



1991 5 1/4" diskettes \$2 each
1990 and earlier \$1.50 each

1992 diskettes available at regular prices: 5 1/4" - \$3
3 1/2" - \$5



See Norman Dafoe at the Swap Meet, November 24

Running FoxPro under Windows

by Andrew Ross MacNeill

You can only run the standard version of FoxPro with Windows in 386 Enhanced mode. If you want to run the Extended version, you have to use Windows in Standard mode. This is because the DOS Extender that FoxPro 2.0 uses does not support DPML, which Windows uses. This will be solved with FoxPro 2.5 for DOS.

Removing .CDX files

If you delete a .CDX index file using DOS, the next time you try to open that database, FoxPro will return an error message. The way around this is to SET SAFETY OFF. FoxPro will then ignore the fact that a .CDX file does not exist for the file and open the file without returning an error.

Disabling the Escape key

There are three different ways to disable the Escape key. The best way I have found is to write a routine called NOTHING.PRG with only one line in it. The line would be RETURN. Then to disable the Escape key, my code is

```
ON KEY LABEL ESCAPE DO NOTHING.
```

When you press Escape, you call my routine, but it doesn't do anything.

Do you have a quick tip? Post it on the PUB or fax it to 596-3313.

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FoxPro 2.5 and FoxPro for Windows — when?

by Andrew Ross MacNeill

Winter is creeping up on us, but Fox SIG database users have not been idle while awaiting the new release of FoxPro version 2.5. In early October, Microsoft rep. Bernard Wong spoke at length about the way Microsoft plans to handle FoxPro, and described some of the new features that we can expect to see in the product. Of course, the big question on everyone's mind is — when?

True to form, Bernard wasn't able to divulge that little piece of information, although many expect to find this latest version in the stores for the Christmas shopping rush.



New product fact sheet

While Bernard wasn't able to give away any juicy tidbits, I am (and I will). FoxPro for Windows will be the first new product available. FoxPro for DOS will follow, and the rest (Mac and Unix) is expected later next year. Although January has been mentioned, I think Microsoft is a bit tied up with Windows stuff, so I wouldn't expect it before March. There will be a "fact sheet" about FoxPro 2.5 available at the next meeting. This will outline some of the features that have been added to the new version as well

as some tips for upgrading your applications to Windows.

Questions

The Fox SIG continues to grow. There have been some job inquiries on the PUB lately as well as answers to some questions posed by other users. I encourage anyone, beginner or expert, to take a look and ask or answer some questions. There is a fountain of knowledge just waiting to be tapped.

Next meeting

The next SIG meeting will be held December 3rd at the Jean Talon Conference Room at Statistics Canada, Tunney's Pasture (the same place as the October 8th meeting). A Beginner's Introduction to FoxPro will begin at 7:00 p.m., to be followed by some advanced topics later in the evening. If you have an issue that you would like addressed, drop me a line on the PUB or fax me at 596-3313. I will do my best to address it for you at that meeting.

My apologies for those who have tried to leave phone messages for me at 596-3313. My voice mail system has been having some problems.

I hope to see you all at the next SIG Meeting. Bring a friend!

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Windows SIG

No November meeting

by Susan Phillips

Because of the Swap Meet on Nov. 24, there will be no Windows SIG meeting. Frederic Dahm will, however, be at the Swap Meet, and members with questions are encouraged to drop by his table. The next Windows SIG meeting will be on December 15th, but if Frederic has found no-one to take over from

him as SIG coordinator by then, there will be no SIG meeting.

Supreme being needed

Yes, the SIG is still in dire need of a coordinator. It isn't an overwhelming job (it merely requires a few hours a week from a saint with god-like abilities). Frederic cannot attend the SIG meetings because of his massive workload, but he is more than willing

to give a hand to the person who's elected.

Yup, that person has to be elected, but the consensus at the last meeting was that if there's only one person coming forward, that person would be acclaimed. If by some kind of miracle two people were to request the position, then elections would have to be held.

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Screensavers: not exactly what they seem

by Chris Taylor

Did you know that the Windows 3.1 screen savers are programs in disguise? Screen saver files have an extension of .SCR but can be executed just like any other program. (Well, almost like any other program.) To get Windows to recognize the .SCR files as programs, you have to edit a line in your WIN.INI file. (Remember to back up your WIN.INI file before you open it.) Using an ASCII text editor such as Windows Notepad, look for a line in the [Windows] section at the top of the file that reads `programs=com exe bat pif`

Add "scr" to the line so that it now reads `programs=com exe bat pif scr`

Restart Windows so that this change takes effect.

Adding the icon

Once you have added the .SCR to the programs line in WIN.INI, try adding a screensaver icon to a Program Manager group. The easiest way is to drag the filename.SCR from File Manager into a Program Manager group. The icon for the screen saver will appear on your desktop.

Immediate effect

Now another secret about .SCR files. If you run one with a parameter of /s, it will immediately execute, blanking the screen with the particular effect designed into the .SCR program. If you run it without the /s parameter it brings up the configuration screen where you can change any of the built-in options.

From the Program Manager screen, click once on the icon and select File Properties to get the Program Item Properties dialog box. Add /s to the end of the Command line. At the same time, you can add a Shortcut key (for example,

Ctrl-Alt-E to activate the Enterprise screen saver). Save your changes and try it out by double-clicking on the icon or by pressing the hot-key.

Other screen savers

In addition to the six screen blanking modules that come with Windows 3.1, there are shareware and public domain modules available. Look on the PUB for HSAVER.ZIP, WIN31SAV.ZIP, and a must for Trekkies: ENTERPRI.ZIP(see sidebar).

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Trekkie screen saver



A screen saver module for the built-in screen saver in Windows 3.1

From the PUB, copy the file ENTERPRI.SCR into your Windows directory. Then you can activate it either by using the method described in *Windows tips and tricks*, or as follows: Start Control Panel and choose the Desktop icon. Open the list box in the Screen Saver section and choose the option "Final Frontier". In the SetUp section, you can choose between the old Enterprise, the new NCC 1701D, and a Klingon battle cruiser. You can also modify the warp speed.

Engage!

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DTP SIG report

Show and tell for DTP members

by Julie Dustin

It's show-and-tell time at the December 15th meeting for any and all WordPerfect or Word for Windows users. Come and display your latest and greatest desktop publishing creations.

Tips and tricks

All attendees can exchange tips and tricks of their favourite word

processing package. Please bring a few samples of your work (25 copies if you want to hand copies to all DTP SIG members). Don't worry, you don't have to do a formal presentation - just be there to explain how you created the effects. A question-and-answer period will also be held in conjunction with this mini-trade show.

To get the most out of the evening, please contribute something, O.K.....anything!!!!. Call me if you have any questions (228-0724).

There will be no DTP SIG meeting on November 24th due to the popularity of the Swap Meet.

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The National Capital Freenet

by Robert Parkinson

There's a new BBS being introduced into the Ottawa National Capital Region. "Who needs yet another BBS?", you say. Well, this one is quite different, on at least three counts. One, it's free. Two, it's arguably going to be the most powerful BBS in the region. Three, it is devoted exclusively to community service activities. The "Freenet" concept is well underway in the USA, Ottawa's version being based on the Cleveland Freenet, which has 35,000 registered users. The only other one in Canada is in Victoria, also just getting underway. The goal is to have the National Capital Freenet open for full public access by the end of this year.

Freenet mandate

The mandate of the National Capital Freenet, incorporated as a non-profit Canadian corporation, is to provide 24-hour free electronic public information on organizations and activities in the National Capital Region, ranging from Regional or municipal governments, public libraries, social services agencies (e.g., the Red Cross), to support groups and federal agencies such as Statistics Canada, etc.

As now conceived, Freenet should provide at least four basic types of service:

- Electronic brochure services, which might include newsletters, annual reports, "What's On" information, tourist guides, etc.
- Database services, likely to consist of access links to databases maintained by participating agencies. For example, access to the Ottawa Public Library master catalogue is now available through Freenet and the City of Ottawa by-law database might be accessible in this way.

- Interactive BBS-type services. As yet undefined, it is hoped that this would become a "public forum" area, where users could discuss, and present their views on, certain defined questions or topics.
- E-mail services, to the participating organizations (i.e., the information providers), as well as to other Freenet users.

Freenet has a connection, through Carleton University, to the worldwide Internet network, which has ac-

"Who needs yet another BBS?

**... this one is quite different ... it's free
... it's arguably going to be the most powerful BBS in the region ... it is devoted exclusively to community service activities."**

cess to over a million computers in over 10,000 sites around the world.

The National Capital Freenet was brought about through many hours work by a group of citizens, headed by Dave Sutherland, Director of Computing and Information Services at Carleton University. Carleton is currently supporting Freenet by providing space on their computers and access to the university modem pool

and phone lines. However, this generous arrangement is only temporary — Freenet will have to become self-supporting in terms of equipment.

To this end, the Freenet organizing committee (made up in the main of Carleton staff, but not restricted in any way to computer experts) is actively seeking donations of equipment and money. There will be a series of public meetings to publicize the Freenet concept, to seek information providers and to encourage potential donors.

Application has been made to have Freenet registered as a charitable organization under the Income Tax Act. If successful, tax receipts will be available for donations to Freenet. The estimated annual budget for Freenet, when it is fully operational, is some \$300,000. This sum would include the services of a full-time manager.

OPCUG and Freenet

Why should we in the OPCUG be interested in Freenet?

- I think that all of us, as citizens, should give as much support as we can to this "new technology" community service.
- Freenet could benefit from the support of our members in terms of both money and possibly equipment; refurbished XT's, for example, that could be donated to community service groups to allow them to use Freenet.
- As a group of knowledgeable PC people, OPCUG members may be able to offer computer expertise through an E-mail link to Freenet. A first step in this direction might be for the OPCUG to post a bulletin on Freenet giving the Club's answering machine phone number as a help line.
- OPCUG volunteers might, in cooperation with the Freenet staff, be able

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An exception to the "errorlevel rule"

by Robert Parkinson

When using "IF ERRORLEVEL" inside a "FOR...IN...DO" construction, COMMAND.COM processes the instructions in a counter-intuitive manner. Robert Parkinson explains why this is a problem and provides the solution.

The general rule in testing for returned errorlevels in batch files is to test for them in descending numerical order. This is because any single test will return "true" for an errorlevel that is equal to or greater than the test value. For example, the line "IF ERRORLEVEL 3 GOTO YES" will be executed if the errorlevel is 3 higher. You can constrain this behaviour by using an "IF...IF NOT" construction, as in something like "IF ERRORLEVEL 3 IF NOT ERRORLEVEL 4 GOTO YES", but it is generally simpler just to test from the highest to the lowest, as in:

```
IF ERRORLEVEL 4 GOTO X4
IF ERRORLEVEL 3 GOTO X3
IF ERRORLEVEL 2 GOTO X2
IF ERRORLEVEL 1 GOTO X1
IF ERRORLEVEL 0 GOTO X0
```

A problem arises, however, whenever you try to simplify your batch files by combining the errorlevel tests using the DOS "FOR...IN...DO" construction. Following the errorlevel pattern used above it would be logical to use

```
FOR %%Z IN (4 3 2 1 0) DO IF ERRORLEVEL %%Z GOTO X%%Z (all on one line)
```

You will find, however that this construction will NOT work and that you will branch to subroutine X0 in all cases, regardless of the actual errorlevel returned. Why?

The answer is found in the way that COMMAND.COM handles the "FOR...GOTO" command in conjunction with the "IF ERRORLEVEL" command. COMMAND.COM resolutely processes every iteration of the "FOR" command before executing the "GOTO" command. If a state-

ment is "true", the corresponding jump instruction is set to one side while the next iteration of the loop is processed. This is quite acceptable if only one of the conditions can be true. However, if more than one condition can be true, as in the "IF ERRORLEVEL" test, then this process will fail if the test conditions are listed in the wrong order. Recall that "IF ERRORLEVEL" returns true if the errorlevel is equal to or greater than the test condition. Assume a returned errorlevel of "3". The first time through the loop, the condition is false and COMMAND.COM proceeds to the second iteration. This time, the condition is true (%%Z = 3) and the correct "X3" label jump instruction is set aside, but not yet executed. COMMAND.COM now goes through the third iteration of the loop and finds that the errorlevel (%%Z) is equal to or greater than 2. The condition is again true, so the "X2" jump instruction is set aside, overwriting the previous "X3". This continues until the final iteration overwrites "X1" with "X0". Only after all conditions are tested will COMMAND.COM look to see what to do next. In this case, it finds the "X0" jump instruction and executes it.

The solution to this problem is to simply reverse the "errorlevel rule". In this case, test in ascending numerical order. Then the last "true" condition that COMMAND.COM processes will result in the correct jump instruction being set aside, "X3" in the previous example. The correct, and workable, line would now read:

```
FOR %%Z IN (0 1 2 3 4) DO IF ERRORLEVEL %%Z GOTO X%%Z (all on one line)
```

Note: While this problem and its solution are applicable to the COMMAND.COM found in both PC-DOS and MS-DOS, that may not necessarily apply to any substitute command processor, such as 4DOS, NDOS, etc.

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Freenet Continued from page 6

to assist community service groups in organizing their material for uploading to Freenet and revising the menu structure to suit.

- The Freenet Organizing Committee is looking for volunteers to act as bulletin board moderators.

Tell your views on these ideas to any member of the OPCUG executive, personally or on the PUB. One thing you can't do just yet is log on to Freenet. The network is still in the test phase and too many curious users at this delicate time would overwhelm the Carleton facilities, which

are rightfully dedicated firstly to the Carleton students and staff. When the Freenet modems and the initial four phone lines are installed, (sometime in mid-December, it is hoped) the numbers and logon information will be made very public.

You might also consider attending the next monthly Freenet meeting, Dec. 8 at 7 p.m., or calling the Freenet office at 788-3947 between 10 a.m. and 2 p.m.

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Beginner's Corner

There will be no Beginners' Corner meeting on November 24th as Eric Clyde is busy organizing the Swap Meet which may also last too long for us to have a SIG meeting.

Eric is always happy to answer questions, however. You'll be able to find him in the cafeteria on November 24th, or call him at 749-2387.

Ottawa PC News

Ottawa PC News is the newsletter of the Ottawa PC Users' Group (OPCUG), and is published monthly except in July and December.

Deadline

Deadline for submissions is the last day of the month prior to publication.

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Group Meetings

OPCUG meets monthly except in July and December. Check the answering machine, the PUB and the newsletter for the date and place of each meeting. Meeting times are 7:30 p.m. to 10 p.m.

Membership fees

\$25 per year

Disk-of-the-Month

\$25 for 5.25 ins. diskettes and \$35 per year for 3.5 ins. (for 10 diskettes)

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SIG outing

The computerization of printing

by Julie Dustin

O.K., so I thought I would be mildly educated by a tour at the Lowe-Martin Group plant, having seen my share of printing presses during my six years at R.L. Crain (the business forms company). Well, I came away very impressed by the technology acquired and the investment recently made by the 80-year old company. The tour, held on a World Series night on October 20th, was organized by our OPCUG member, Mark Baker. Twenty of our members saw the newest technology offered by Lowe-Martin's two divisions, Imagraph Electronic Publishing and Synergy Print and Copy.

Power to the presses

The Heidelberg GTO-DI press was the most impressive. It prints up to 8000 sheets per hour from Postscript output of common desktop publishing programs (DTP). To give you an idea of their computing power, they are upgrading, yes up-

grading, a Quadra 900 from 64 MB of RAM to 212 MB. Did I hear a gasp?

You're the artist

Here's the scenario...you bring your diskette to Imagraph once you have created the colour separation files with your DTP program. Their Raster Image Processor (RIP) translates the code into the four process colours, sends the images through a network to the printer and creates the four plates at the press on silicon-coated mylar sheets. This means fewer mistakes by the typesetters. Lowe-Martin claims a total of 45 minutes' preparation time. O.K., sometimes the process produces pink water but, hey, that's amazing prep. time!

See Mark Baker for more information. You can reach him through the BBS or at Imagraph. Thank you, Joe Gosski, Jerry Moodie and Mark at Lowe-Martin for the in-depth tour.

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Community service

Factory of four

by Julie Dustin

The call for help from the Community Foundation of Ottawa-Carleton was heard at an OPCUG meeting last Spring. The Foundation needed help with renovating old computers to donate to small charitable and cultural organizations. Four members of the OPCUG responded to the plea for technical support.

Over several months, they tested and repaired computers, peripherals, and printers donated by the Regional Municipality of Ottawa-Carleton. The team kept inventory then

matched equipment to the overwhelming list of needy recipients.

Are you wondering who these hard-working guys are? O.K., kudos go to ...John Laffoon, Pat Paterson, Cornel Bierman and Ron Pinault.

This temporary "factory of four" helped organizations serving the needs of the arts community, the poor, the homeless, new Canadians and the illiterate, among others.

Contact Harald Freise if you are interested in volunteering your services for similar projects in the future.

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