

Indkaldelse til generalforsamling .....	3
Brugergruppens fremtid .....	4
Rettelse til medlemsdiskette .....	5
PC-volumes	
PC-SIG 512 From the complete Turbo Pascal .....	7
PC-SIG 513 B-menu and others .....	8
PC-SIG 514 Casino games .....	9
PC-SIG 515-516 The Draftsman .....	10
PC-SIG 517 Imageprint .....	11
PC-SIG 518 Expert systems .....	12
PC-SIG 519-520 Budgetrak .....	13
PC-SIG 521 Free file .....	15
PC-SIG 522 Instant recall .....	15
PC-SIG 523 Side writer .....	16
PC-SIG 524-525 Expresscalc .....	17
PC-SIG 526 WSMX80 .....	18
PC-SIG 527 B-window toolbox, C-window .....	19
PC-SIG 528-529 New York word .....	20
PC-SIG 530 Freeword .....	21
PC-SIG 531 Alan's text-editor & spreadsheet .....	21
PC-SIG 532 PC-money .....	22
PC-SIG 533 PDS*quote .....	22
PC-SIG 534 Computer user's handbag 1 .....	23
PC-SIG 535 Computer user's handbag 2 .....	24
PC-SIG 536 PC-tools .....	25
PC-SIG 537 DBS-kat .....	26
Squeezing og Crunching .....	27

# Møder

Der er planlagt medlemsmøde på følgende dato:

onsdag d. 26 oktober      Generalforsamling

Derudover er der reserveret mødelokale på følgende datoer:

onsdag d. 16 november

onsdag d. 7 december

Møderne afholdes på adressen:

Vesterbro kulturhus,, Lyrskovsgade, København V

Lokale-nummer fremgår af opslag ved indgangen. Dørene åbnes som vanligt kl. 19.

---

## INDMELDELSE OG KONTINGENT

Indmeldelse i MUG Denmark kan foretages ved indbetaling af kontingent (pt. 200 kr. årligt) på giro 5 68 65 12, MUG Denmark, ved Jørgen Petersen. Der opkræves ikke indmeldelsesgebyr.

---

Oplag:            300  
Tryk:            Dansk Tidsskrifts Tryk.  
Redaktion:      Leif Olsen.

Redaktionen afsluttet 2/10-88.

# Fra bestyrelsen

## INDKALDELSE TIL GENERALFORSAMLING

Der indkaldes til ordinær generalforsamling i MUG, onsdag den 26. oktober 1988 kl. 19.00 i Vesterbro Kulturhus.

Dagsorden:

1. Valg af dirigent og referent.
2. Formandens beretning.
3. Bibliotekarernes beretning.
4. Indkomne forslag.  
Bestyrelsen fremsætter følgende forslag:

*Der udsendes fremover ikke flere brugerblade, og der afholdes ikke medlemsmøder. Bulletin boardet fortsætter, ligesom såvel CP/M som PC biblioteket fortsætter uændret. Der opkræves ikke kontingent, men brugerne af bulletin boardet kan afkræves en mindre afgift for at dække driftsomkostningerne.*

Forslaget sættes kun til afstemning, hvis det viser sig umuligt at vælge en ny bestyrelse.

*Der er ikke indkommet forslag fra medlemmer.*

5. Valg af formand.
6. Valg af øvrige bestyrelsesmedlemmer.
7. Valg af 2 revisorer.
8. Eventuelt.

*Bestyrelsen*

# Forslag

## BRUGERGRUPPENS FREMTID

I sidste nummer af brugerbladet efterlyste vi nogle initiativrige medlemmer, der vil gå ind i bestyrelsen, og drive brugergruppen videre. Det har ikke rigtigt givet nogen respons. Da det ligger helt fast at Leif Olsen, Mikkel Moulvad og undertegnede ikke vil fortsætte i bestyrelsen, kan vi komme til at stå i den situation, at vi ikke kan få valgt en bestyrelse på den kommende generalforsamling. Bestyrelsen skal derfor fremsætte følgende forslag om brugergruppens fremtid:

*"Der udsendes fremover ikke flere brugerblade, og der afholdes ikke medlemsmøder. Bulletin boardet fortsætter, ligesom såvel CP/M som PC biblioteket fortsætter uændret. Der opkræves ikke kontingent, men brugerne af bulletin boardet kan afkræves en mindre afgift for at dække driftsomkostningerne."*

Med et sådant stærkt reduceret aktivitetsniveau vil den siddende bestyrelse gerne forsætte.

På bestyrelsens vegne

*Jørgen Petersen*



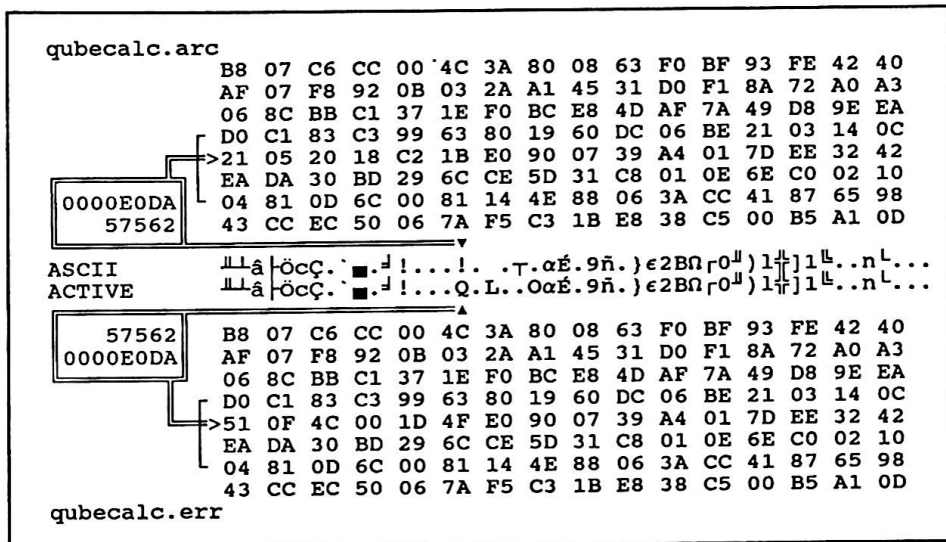
# Rettelse

## FEJL på medlemsdisketten

Der havde desværre indsneget sig en fejl på nogle af medlemsdisketterne fra maj 1988. Hvis du er en af de uheldige, er her en måde at få dem rettet på:

### Qubecalc

Qubecalc er meget nem at rette til, hvis du gør det før du pakker ud. Ret de 6 bytes i filen i location 57562 fra 51 0f 4c 00 1d 4f til 21 05 20 18 c2 1b, så vil QUBECALC.ARC kunne dearkiveres korrekt.



### Poker:

Nedenstående er et dump af det rigtige og det forkerte indhold af POKER.ARC filen. Hvis du gider, kan du patche din fil, så den er nøjagtig som vist her. Er du den dovne type, kan du bare negligere filen GIRLIE.EXE i den udpakkede version og lægge en tom fil med navnet GIRLIE.BAT i dit directory.

```

poker.arc
      C2 37 C3 F8 26 C0 01 04 D4 51 40 5E 57 0A 30 0C
      21 26 5C 49 C7 07 87 64 33 C8 30 33 A0 23 86 01
      B4 94 08 15 2F 68 45 CF 37 BE 98 F2 96 01 E8 A4
      >A3 CE 2F 82 A2 33 C0 3A 8B 34 61 00 20 F1 00 B2
      0E 07 91 2C 72 0F A2 00 94 A2 E9 2A C3 04 3A 28
      3A C8 1C 9A A8 38 EA 34 6A C0 22 44 18 46 0E 1D
      DD E8 C0 CE 1D 07 00 18 89 02 AB 4A A3 42 39 F6
      ↓
ASCII  |ö../hE±7Jÿ≥û.øñú†/éó3L:i4a. ±.⊞.æ,r.ó.ööθ*†.:(:
BOTH   .p.Q.ô>⊞.x%.<.ñ.†. &+.n.F≥z%. . . .k%η.Q.θ.j.<.J.n.
      ↑
      22705
      000058B1
      C2 37 C3 F8 26 C0 01 04 D4 51 40 5E 57 0A 30 0C
      21 26 5C 49 C7 07 87 64 33 AF 02 EF 0D FC 04 51
      0F 40 00 6A 0A 3C 00 F5 03 00 00 42 02 78 25 4C
      00 70 0A 51 0F 93 F2 B2 0A 78 25 2E 0B 3C 00 EF
      >0D D7 0A 26 00 2B 0A EF 0D 46 F2 7A 25 00 00 1E
      00 6B 25 FC 04 51 0F 40 00 6A 0A 3C 00 F5 03 EF
      0D 4C 00 7A 24 40 08 51 0F 46 F0 EF 0D 4C 00 1D
      DD E8 C0 CE 1D 07 00 18 89 02 AB 4A A3 42 39 F6

poker.err

```

Med venlig hilsen

Den brødefulde disketteredaktør

Carl Skovgaard Larsen

This disk contains the example programs, subprograms, and data files from Jeff Duntemann's book, The Complete Turbo Pascal, isbn: 0-673-18111-1.

BEEP	SRC	Turbo pascal source function/procedure
BOXSTUFF	SRC	Turbo pascal source function/procedure
BOXTTEST	PAS	Turbo pascal source program
CASE	COM	Compiled, executable turbo pascal program
CASE	PAS	Turbo pascal source program
CLRAREA	SRC	Turbo pascal source function/procedure
CURSOFF	SRC	Turbo pascal source function/procedure
CURSON	SRC	Turbo pascal source function/procedure
DISKFREE	SRC	Turbo pascal source function/procedure
FACTRIAL	SRC	Turbo pascal source function/procedure
FATPAD	COM	Compiled, executable turbo pascal program
FATPAD	PAS	Turbo pascal source program
FLIPFLD	SRC	Turbo pascal source function/procedure
FRCECASE	SRC	Turbo pascal source function/procedure
FRIENDS	KEY	Support routine or data file for example program
FRIENDS	NAP	Support routine or data file for example program
GENESIS	PAS	Turbo pascal source program
GETSTRIN	SRC	Turbo pascal source function/procedure
HEXDUMP	COM	Compiled, executable turbo pascal program
HEXDUMP	PAS	Turbo pascal source program
INTSWAP	SRC	Turbo pascal source function/procedure
ITERM	PAS	Turbo pascal source program
KEYSTAT	C86	Support routine or data file for example program
KEYSTAT	CPM	Support routine or data file for example program
KEYSTAT	PC	Support routine or data file for example program
KSEARCH	SRC	Turbo pascal source function/procedure
MAKE	BAT	Batch file for SCRNBTL.ASM program
MONOTEST	SRC	Turbo pascal source function/procedure
MOUSE	SRC	Turbo pascal source function/procedure
OVLTEST	000	Overlay file for example program
OVLTEST	001	Overlay file for example program
OVLTEST	PAS	Turbo pascal source program
PARSTAIL	SRC	Turbo pascal source function/procedure
POINTERS	PAS	Turbo pascal source program
POWER	SRC	Turbo pascal source function/procedure
PULL	SRC	Turbo pascal source function/procedure
PUSHPOP	PAS	Turbo pascal source program
QUIKSORT	SRC	Turbo pascal source function/procedure
RANDOMS	KEY	Support routine or data file for example program
READ	ME	A note from the author
ROLLEM	PAS	Turbo pascal source program
RVRNAME	SRC	Turbo pascal source function/procedure
SCREEN	PAS	Turbo pascal source program
SCRNBTL	ASM	Assembler source code program
SCRNBTL	COM	Compiled, executable turbo pascal program
SHELSORT	SRC	Turbo pascal source function/procedure

SHOWNAME	COM	Compiled, executable turbo pascal program
SHOWNAME	PAS	Turbo pascal source program
SNAPSHOT	PIC	Support routine or data file for example program
SORTTEST	PAS	Turbo pascal source program
STRIPWHT	SRC	Turbo pascal source function/procedure
VARDUMP	SRC	Turbo pascal source function/procedure
WHICH	PAS	Turbo pascal source program
WRITEAT	SRC	Turbo pascal source function/procedure
WRITEHEX	SRC	Turbo pascal source function/procedure
YES	SRC	Turbo pascal source function/procedure

-----

**Volume PC-SIG 513                    B-MENU AND OTHERS**

-----

BMENU and MENUGET comprise a menu development and use system that provides a simplified means for any user to build command menus using a text editor.

AUTOEXEC	BAT	Autoexecute batch file to start menu program
BMENU	EXE	Executable program to display menus
BMENU	MNU	Sample menu
COOKIE	DAT	Data file for COOKIE.EXE
COOKIE	EXE	Fortune cookie program
DATE	EXE	Day & time program to display on 1 line
DMENU	BAT	Batch file to demonstrate menu system
EGGS	EXE	Graphics demonstration program
ESCAPE	EXE	Program to detect the <esc> key in a batch file
GRAPH	MNU	Submenu used with demonstration programs
HANGMAN	EXE	Guess the words before it's too late program
INFO		Data file used with MENUGET.EXE
LINES	EXE	Graphics demonstration program
LISAJOU	EXE	Graphics demonstration program
MAIN	MNU	Main menu for demonstration programs
MENU	BAT	Batch program to start demo program
MENUGET	EXE	Executable program to build menus into a batch file
NOTICE	TXT	Program legal notices and list of files
READ	ME	Program documentation
WORDS		Data file for HANGMAN.EXE

This games disk has 8 programs which will give you hours of fun and relaxation. Roulette and keno might be used to develop your own system of beating the casinos. I found the 3d tic-tac-toe and the othello games to be just great fun, for they match your wits against the computer. The pc-othello game is meant to be played by two computer users over the telephone wire. If you are a serious internals person with experience in assembly you may find corewars to be both fun and a learning experience. The biorythms charting program is very good. All in all a nice collection of computer games.

3DTICTAC EXE 3-dimensional tic-tac-toe game against the computer  
BIORHY TXT Short introduction to biorythm and its use  
BIORHY COM Program to calculate your biorythm on any date  
BRIDGE EXE Program which randomly deals bridge hands for practice  
BRIDGE DOC Notes about the use of BRIDGE.EXE  
COREWAR EXE Executable corewar game program  
COREWAR DOC Complete instructions on COREWAR.EXE  
KENO EXE The program file for the keno game  
OTHELLO DOC Documentation for OTHELLO.COM  
OTHELLO COM+ Executable program for color computer systems  
OTH-BW COM The program for monochrome or b/w computers  
PCOTHELL DOC Documentation for PCOTHELL.EXE  
PCOTHELL EXE Executable program for othello  
PCOTHELL PN1 Communication file for com1  
PCOTHELL PN2 Communication file for com2  
ROULETTE EXE The program file for roulette



The Draftsman is a program for creating data graphs or slide shows from lotus 1-2-3, symphony, and visicalc files that are in dif (data interchange format), or user-created data files. A version of this program was licensed by plantronics for their color graphics card. Disk PC-SIG 516 contains the documentation for the draftsman.

DRAWMAN	EXE	Main program
ERROR	DAT	Contains error messages used by DRAWMAN.EXE
FILE	DAT	Contains file pointer information used by DRAWMAN.EXE
HELP	DAT	Contains help messages used by DRAWMAN.EXE
MENU	DAT	Contains the menus used by DRAWMAN.EXE
VIO	DAT	Additional programs segments, this is part of DRAWMAN.EXE
WORK	DAT	Data work file used for slide shows and plotting/printing

The Draftsman is a program for creating data graphs or slide shows from lotus 1-2-3, symphony, and visicalc files that are in dif (data interchange format), or user-created data files. A version of this program was licensed by plantronics for their color graphics card. Disk \$515 contains the program.

DRAWMAN	DOC	Documentation for the draftsman
PRINT	BAT	Copies DRAWMAN.DOC to the printer.
NOTE	TXT	A brief note on items in the documentation

Imageprint is a program which allows the production of high quality characters on a dot-matrix printer. With imageprint, many users of ibm/epson graphics printer will find their old printers sufficient for new jobs.

Imageprint produces the ibm graphics printer's extended character set, which matches the ibm pc's character set in letter quality. All the mathematical symbols, national characters and graphics characters are included. It also provides the standard ibm graphics printer character attributes like bold, double width, underline, and compressed. Additional features include italic, half-high, 12 characters per inch (cpi), true superscript and subscript, 6 or 8 lines per inch; epson jx series printer color control and proportional character spacing.

There are three imageprint print qualities: medium quality fast 3 pass printing at standard printer speed. The imageprint. Default high quality 3 pass printing moves at one half standard printer speed. High quality 6 pass printing moves at one half standard printer speed mode for more important materials, or for well-used printer ribbon. Print using bold, underline, proportional spacing, italics, and more. Text formatting text (left and right justification) is accomplished with simple backslash ("Ø") codes.

F	DAT	Data file for FONTDEMO.BAT
FONT1		Imageprint cubic font (used by IMP80.EXE)
FONTDEMO	BAT	Batch file used for a demonstration of imageprint fonts
FTABLE	TXT	Font table. Can be printed in different font types
IMP80	EXE	Imageprint program for an 80-column printer (48 pages)
IMPTUTR1	TXT	Simple imageprint demonstration
IMPTUTR2	TXT	Detailed imageprint demonstration
MANUAL	DOC	Documentation on how to use IMP80.EXE
NATIONAL	COM	Redefine imageprint to ten international character sets
PCWRT	HLP	Patch for pc-write help file (HELPE.DEF) (pc-write vol 78)
README		Notes on how to print the documentation and start prog.
RULER	DEF	Pc-write definition file for ED.EXE (pc-write is disk 78)
RULER	PRT	Pc-write definition file for PR.EXE (pc-write is disk 78)

Expert system is a fascinating program that borders on the field of artificial intelligence. The system allows a computer to behave as if it were thinking for itself. It can be set up to ask a series of questions, form a diagnosis and recommend a course of action in virtually any circumstance.

Expert system would be of interest to anybody who would like to put their expertise into a program that could be drawn upon by employees or other interested people. Up to 3000 questions and 1000 problems can be stored in this inference engine. The program is written in basic and source code IS PROVIDED. The documentation on disk is excellent.

EXPERT BAS Source code in basic  
EXPERT EXE Compiled program  
EXPERT TXT System documentation

Budgetrak is an excellent encumbrance accounting package that would be of interest to people working in the department of a large company who have a desire to track their own budget and expenses more closely than possible using the general information generally contained in a central accounting system. Encumbrance accounting tracks obligations and planned expenses rather than actual expenses. This is the first of a two disk set.

This package differs from a more standard accounting system in that when an expense is anticipated, the estimated amount or encumbrance is entered. The entry is reflected in the remaining budget. When the actual expense is known, it is entered and the encumbrance amount and budget are updated. This gives a more accurate picture, for budgeting purposes, than waiting to record an actual expense.

The system will handle both single and double entry systems and also produce a 12 month spreadsheet. Five balances are maintained: budget, variance, encumbrance, ytd variance and actual. The coding reflects the program's intelligent design: 2 digit company code, 7 digit sub department and a 6 digit account code. It can handle up to 999 master records and up to 12000 transactions per month. The package has a password system and comes with a set of utility programs and good documentation. A high capacity floppy drive or a hard disk is recommended for this package.

BUDGDOC		Documentation for BUDG.EXE
BUDPASWD	EXE	Password program
BINT	EXE	Initialization program
BUDG	EXE	Budget set up program
BMST	EXE	Master file set up program
BTRN	EXE	Transaction creation program
READ	ME	Introduction to BUDG.EXE
BRIEFDOC		Short documentation to get you up and running quickly
CONVERT	DOC	Conversion documentation

README		Brief notes on using budgetrak
BPRN	EXE	Print transaction file with summaries
BSPR	EXE	12 month spreadsheet program
B3MO	EXE	3 month spreadsheet program
GIND86DD		Data file - 1
BSRT	EXE	Sorts transaction file and master file
SOFFSET		Data file - 2
BUDPASS		Data file - 3
??DD1		Data files (created by month)
BBAL	EXE	Audit transaction file balances
GNAM86DD		Data file - 4
GLMS86DD		Data file - 5
GCTL86DD		Data file - 6
BCON	EXE	Conversion program
CONVERT	DOC	Documentation for BCON.EXE



-----  
Volume PC-SIG 521            FREE FILE    VER 1.0  
-----

Freefile is a relational data base system that allows a user with little or no programming experience to determine how files are to be created, enter information and print reports. It is particularly useful for those interested in maintaining a collection of information with the ability to set up 'calculated fields' and import or export data to and from other packages. Free file has online help and two tutorials with explanations. It allows ten indexes per database, 2 billion records, 1000 characters per record and 100 fields per record.

READ	ME	Introduction to print documentation
FF	EXE	Main freefile program
FF	HLP	Freefile help text
FF	DOC	Freefile documentation
DEMO1	?	First tutorial with names & addresses
DEMO2	?	Second tutorial with rental business application
COLOR	EXE	Set up color for color monitor
NO-COLOR	FIL	Set up for monochrome graphic monitor

-----  
Volume PC-SIG 522            INSTANT RECALL    VER 1.5X  
-----

Instant Recall is a memory resident database program that allows users to record and access any information stored in it without leaving their main program. We expect this program to have widespread appeal because it can work in conjunction with other programs and offer up to 80k of database information at any time. Registered users receive a 2mb version.

INSTANT	DOC	Documentation for instant recall (40 pages)
IR154F	EXE	Instant recall program
INSTANT	XXT	Instant recall database file
INSTANT	KEY	Instant recall database file
README		General introduction to instant recall
IR_USES	DOC	Some possible uses for the instant recall program
IR160F	EXE	Instant recall program

Sidewriter is a program that allows printers to output sideways on paper. This allows the printing of reports and other materials that do not fit in the number of columns allowed across a page, because it prints down the length of the sheet instead of across the width. It works much like the commercial program sideways. The program is written in pascal and the source code is provided with the package.

SAMPLE	PRN	Sample 123 print file
SAMPLE	WKS	Sample 123 worksheet
SIDE	SET	Sidewriter configuration file
SIDEWRIT	ARC	Sidewriter program backup in archive format
SW	DOC	System documentation for SIDEWAYS.EXE
SWC	COM	Sidewriter for color screen
SWM	COM	Sidewriter for monochrome screen
SIDEWAYS	EXE	Sidewriter executable program
SIDEWAYS	PAS	Sidewriter pascal source code

-----  
Volume PC-SIG 524            EXPRESSCALC VER 3.09    (disk 1 of 2)  
-----

Expresscalc is a spreadsheet program with a wide variety of applications ranging from business forecasts to mortgages calculations. It does not require programming background to be able to use it. This program will also interface with other files and databases allowing an inter-change of INFORMATION. It includes a tutorial, good documentation and the option to configure the package to specific systems. It handles spreadsheets up to 64 columns by 256 lines. Each column may be up to 75 characters long. It needs 256k of memory, and dos 2.X or higher. It functions with both 40 and 80 column displays. Disk 525 contains documentation for this program .

CALC?	EXE	Expresscalc programs (5 files)
CALC	MSG	Error messages displayed when using expresscalc
EXAMPLE		Sample spreadsheet
BW	PRO	Parameter file for setting black and white display
40	PRO	Parameter file for setting 40 column display
BW40	PRO	Parameter file for setting black & white, 40 column display
SL	PRO	Parameter file for slowing down the screen display

-----  
Volume PC-SIG 525            EXPRESSCALC VER 3.09    (disk 2 of 2)  
-----

Expresscalc is a spreadsheet program that has applications ranging from business forecasts to mortgage calculations. Disk 524 contains the expresscalc program that this disk's documentation serves.

CALC?	DOC	Different sets of user documentation total about 190 pages
PRINTDOC	BAT	Batch file to print out documentation
RESPONSE		Response text file

WSMX80 is a printer supplement for wordstar. Designed to be used with Epson mx/rx/fx dot matrix printers and "epson-compatible" printers, this product provides an impressive variety of enhancements for wordstar documents. It should be especially useful to users of wordstar involved with mathematical and scientific notation.

Character density, size and style are all subject to a wide range of variation. Any part of the document can be printed in italics, boldface, "doublewide" or compressed type. Sub-scripts and superscripts are included. Wsmx80 prints a variety of underline styles and strikeovers. Wsmx80 can insert alternate character sets, such as the greek alphabet included in the product, or custom character sets designed by the user. There are also features for table of contents and indexes of the document being printed.

README	TXT	Notes on how to print documentation (type "go" to display)
WSMX	EXE	Main program
CHRCOM	EXE	Character look-up program
WPATCH	EXE	Wordstar patch
DBL	TXT	Text file with examples of double high text
DBL	CHR	Double high character code file
GREEK	TXT	Text file with examples of greek text
GREEK	CHR	Greek character code file
GREEKD	TXT	Text file with examples of greek text for the diablo printer .
GREEKD	CHR	Greek character code file for the diablo printer
WSMXDOC	TXT	Instruction manual
OMSG	TXT	Licence information; how to register
HAPPY	PRN	Disc backup and manual instructions can be printed with wsmx

B-window is a collection of functions that give windowing capability to a basic programmer using an ibm personal computer or true compatible. With b-window, basic programs look much more professional. Windows can be opened over sections of the screen and when closed, the original contents of the screen is left ready to use.

Special windowing cursor control, and string, character display and border drawing are included. Everything happens at top speed because b-window is written entirely in assembler. The c window programs on this disk are from the same author and perform the same function for the programming language c. (microsoft's lattice c).

## ----- B-window version 1.1

B-WIN5I BIN Support file for b-window  
B-WIN10I BIN Support file for b-window  
B-WIN20I BIN Support file for b-window  
B-WINDOW ABS Support program for b-window  
B-WINDOW DOC System documentation for b-window  
B-WINI MRG Program to be merged with basic program  
BWDEMO1 BAS Basic demo program - 1  
BWDEMO2 BAS Basic demo program - 2  
BWDEMO C EXE B-window main program

## ----- C\_window version 1.0

C\_WINDOW OBJ The windowing object code for c  
C\_WINDOW DOC Documentation for c\_window  
C\_WDEF INC Include file for your c code  
C\_W-DEMO EXE Windowing demonstration program  
C\_WINDOW ABS Support program for c\_window



-----  
Volume PC-SIG 528            NEW YORK WORD    VER 1.2        (disk 1 of 2)  
-----

New York word is a very powerful word processor that allows split screen editing, movement of text between windows, the creation of (macros) that perform functions with just a few keystrokes, footnotes, automatic table-of-contents, index generator, automatic hyphenation, mail merge, and a programming language. A user supported package more powerful than most retail word processors!! this disk contains a complete set of documentation for the program, which is located on disk 529.

NYWDOCS    DOC    Complete documentation for new york word (on disk 529)  
                    The documentation is about 200 pages  
PRINT      BAT    Batch file to print out the documentation

-----  
Volume PC-SIG 529            NEW YORK WORD    VER 1.2        (disk 2 of 2)  
-----

HISTORY    DOC    Note from the author on how new york word came in to  
                    existence  
INSTALL    DOC    How to install your new york word  
INTRO      DOC    Some documentation on using new york word  
REGISTER   DOC    How to become a registered owner of new york word  
NYWHELP    ??    20 separate "on-line" help screens that are called by nyw  
????????? PRT    Configuration files for the particular printer in use has:  
                    (panasonic, epson, genicom, laserjet, skeleton, thinkjet)  
WP          EXE    Main program for the new york word  
WPDEFAULT            System configuration file; used by WP.EXE  
WPFORMAT             Format block 0 configuration file; used by WP.EXE  
WPPRMENU             Printer menu configuration file; use by WP.EXE  
PRINT      BAT    Batch file to print out all the help screens

Freword is a powerful and easy to use, menu-driven word processor. It is capable of right and left justification of text; moving the cursor either by character, word, line, screen or page; searching a document for a word or phrase and also moving and copying blocks of text. Freword permits printing in the background mode so that the user can proceed with other work. All registered users receive ssp's spell a spelling checker program.

FW	EXE	Actual freword program
FW	HLP	Help text file
FW	DOC	Documentation on freword
DEMO2		Demonstration file
COLOR	EXE	Configuration file for color monitors
NO-COLOR	FIL	Monochrome monitor configuration file

Alan's editor is a full screen ascii text editor with many word processor capabilities suitable for program source code entry, data file construction, and writing memos. Help screens are included.

Alan's calc is a simple but comprehensive spreadsheet program with many built-in and powerful functions, including multi-file capabilities.

----- Alan's editor

AE	EXE	Alan's editor ascii text processor program
AE	DOC	Documentation for alan's editor - printer formatted manual
AE	HLP	Help screens for alan's editor

----- Alan's spreadsheet

AC	EXE	Alan's calc spreadsheet program
AC	DOC	Documentation for alan's calc - printer formatted manual
BALLOON	AC	Sample spreadsheet file - balloon payments for car purchase
MORT	AC	Sample spreadsheet file - amortgage on a loan
BALANCE	AC	Sample spreadsheet file - checkbook balancing exercize
SUMMARY	AC	Sample spreadsheet file - business budget summary
BUDGET	AC	Sample spreadsheet file - household budget calculations
SHEET1	AC	Sample spreadsheet file - linked work sheet \$1 for summary
SHEET2	AC	Sample spreadsheet file - work sheet \$2 for summary
XYZCO	AC	Sample spreadsheet file - financial data, xyzco

README Author's introduction to files on disk.

---

Volume PC-SIG 532            PC-MONEY VER 1.1

---

PC-Money is a personal and family financial and tax recording system with sections for portfolio management and federal tax estimating. You can use this in conjunction with disk 458 to print out your income tax return.

PC-MONEY COM    Main pc money program  
PC-MONEY DOC    Pc-money documentation  
README    DOC    Quick introduction to pc-money  
INITDATA        Initialization data used by pc-money  
CONTENTS        In-depth description of the files on this diskette  
TAXES85    DTA    Sample datafile - 1  
BANK185    DTA    Sample datafile - 2

---

Volume PC-SIG 533            PDS\*QUOTE VER 3.0

---

This group of programs allows quick and accurate preparation of quotations for projects based on user prepared databases containing the elements required for the project, E.G., materials, processes, parts, labor rates, markups, etc. Needs 256k of memory to run.

VERSION3 0      Version 3 trademark  
QUOTE    EXE    Main program  
DEMANAGE EXE    Program to create databases  
QUOTBASE DEF    Definition file for database fields  
QUOTE    DOC    Registration form and manual  
AUTOEXEC BAT    Autoexecute batch file  
HARDAUTO BAT    Batch file for hard disk  
CONFIG    SYS    Sample of CONFIG.SYS file  
README    DOC    Installation instructions

This disk contains several powerful dos utilities, a background dialer, a text file lister, and a multi-tasking operating environment. It also contains a communications program, some printer utilities, and a small memory resident program to automatically disable capslock when an alphabetic key is pressed. All but one of the programs are fully documented, and most have assembly source code or basic listings.

CAPSUNLK ASM Assembly source listing for CAPSUNLK.COM  
CAPSUNLK COM Memory resident utility to automatically unlock capslock  
DIALER95 COM Background dialer program  
DIALER95 DOC Background dialer documentation  
DISKIDX BAS Basic source code listing for disk organizer utility  
DISKIDX DOC Documentation for disk organizer  
ERRMON COM Disk i/o error monitor for the at  
ERRMON DOC Documentation for disk i/o error monitor  
INT13 ASM Assembly source listing for copy protection breaker  
INT13 COM Copy protection breaker dos utility  
INT13 DOC Documentation for copy protection breaker  
LPTX ASM Assembly source listing for above  
LPTX COM Allow interrupt handlers to capture output to printer on disk  
LPTX DOC Documentation for above  
SDIR50 COM All purpose directory utility and command shell  
SDIR50 DOC Documentation for all purpose directory utility  
TFL BAS Ascii file transfer utility - basic source listing  
TFL DOC Ascii file transfer utility - documentation  
TFL EXE Ascii file transfer utility - compiled  
TMODEM CNF Configuration file for communications program  
TMODEM KEY Auxiliary communications utility  
TMODEM32 COM Communications program to transmit data in several protocols

This disk contains the dos users magic bag of tools. Special command editors, disk catalogers, special deletes, graphics and a utility for indexing manuscripts or books.

CED1\_OB COM Dos multiple command line editor - create new dos commands  
CED1\_OB DOC Documentation for CED1\_OB.COM.  
COPYQ EXE Wildcard selective y/n copy, such as used in vdel.  
PCDISK COM Disk cataloging program.  
QWIKLABL EXE Computer-assisted typing of gummed labels  
QWIKLABL KEY Key assignments file for qwiklabl  
LOAD COM Loads com file larger than 64kb.  
LOAD ASM Assembly source for LOAD.COM  
PUSH COM Save crt image to a file.  
POP COM Restore crt image from a file.  
PUSH-POP DOC Documentation for push & POP.COM.  
SUPEREN COM Renames files, subdirectories, volume labels.  
SUPEREN ASM Assembly source for SUPEREN.COM  
TRIVIA C A chuckle for c programmers.  
FLIP COM Flips between page 0 & 1 of graphics text screens.  
FLIP ASM Assembly source for FLIP.COM.  
SHOW COM Like type with more built in.  
INDEXER EXE Computer-aid for book indexing  
INDEXER PAS Microsoft pascal source code of indexer  
INDEXER DOC Documentation for use of indexer



This disk contains an assortment of useful utility programs with the source code for most being provided as well. They range from programs to browse through a file and print files to others that merge sorted files and even overstrike a files for a darker print.

BROWSE	C	File browse utility with 4 way scrolling	Ø
XDIR	C	Read directory from/to a certain point	Ø
DUMP	C	Provides an ascii/hex dump of any file	Ø each one
PAGE	C	View files one screen at a time	Ø of these
SUBST	C	Oldstring newstring file	Ø programs
MERGE	C	Merge sorted files into one sorted file	Ø has an
FCOMP	C	File comparator program	Ø executable
DARKEN	C	Overstrikes text file for darker print	Ø version
WC	C	A fast word count program	Ø with the
RM	C	Deletes files with or without verify	Ø same name
PR	C	File printer program.	Ø
ROFF	C	Readable source code for a text formater	Ø
GREP	C	Improved version of grep utility	Ø
CASE	C	Contains string lower/upper utility	/
FTRIM	C	Contains trim_fspeg	
READ	ME	Brief description of programs on this disk	
MAKEARG	H	Command line parser for quoted arguments	

DBS-kat is a diskette cataloging system; it is intended for people using hard disk systems who use floppy diskettes for backup/archival purposes. Its central database can catalog the contents of 9,999 diskettes containing 16,000,000 files - without sacrificing performance. The dbs-kat manual claims a savings of 20% to 40% on hard disk space because of this capability.

KAT	EXE	Main catalog program
KATAD	BAT	Advertisement about dbs-kat
KATAD	KP	Text for advertisement
KATBOOK	BAT	Program to print documentation
KATBOOK2	BAT	Used by KATBOOK.BAT to print the documentation
KATBUG	FRM	Type: kat -p to print the dat-dbs problem report form
KATDB	???	The dbs-kat databe comprises these 6 files
KATDRIVE	EXE	Program to scann diretory
KATLOG	BAT	This and KATSTRIP.BAT are used in maintaing and recovering
KATSTRIP	BAT	The dbs-kat program.
KATLOOK	EXE	Program to allow inquiry against dbs-kat database
KATORDER	FRM	Type: kat -o to print the kat-dbs order form
KATSORT	BAT	Program to kat-dbs database
KPRINT	EXE	Multi-feature print program
READ	ME	Notes on how to install the kat disk catalog system
*	OQT	Squeezed files containing the documentation
USQ	COM	Program to un-squeeze the documentation (see READ.ME)
VOLSER	COM	Device volume labler

## SQUEEZING OG CRUNCHING

På klubbens board samt på medlemsdisketterne, er de fleste filer komprimeret ved hjælp af programmet ARC. For dem som måtte være nysgerrige efter at vide hvordan denne komprimering sker, har jeg udvalgt et par afsnit fra dokumentationen til NARC. NARC fungerer som en menu-styret version af ARC. Desuden medfølger en grundig beskrivelse af programmet samt principperne omkring komprimering af filer. NARC samt dokumentation er skrevet af Gary Conway.

*Leif Olsen*

### Huffman-kodning (Squeezing)

Første trin ved komprimering af en fil efter Huffman metoden (kaldes i ARC-sammenhæng for squeezing), består i at læse hele filen igennem og tælle hyppigheden (frekvensen) af hver enkelt byte. Dvs. tælle A'er, B'er osv. I en programfil kan der være op til 256 forskellige bytes, hvorimod der i en tekstfil sjældent er mere end 100 forskellige bytes.

Følgende lille eksempel gennemgår princippet.

Vi har en fil på 100 bytes, der indeholder 6 forskellige bogstaver (A-F). Ved gennemlæsning af filen og optælling af de enkelte bogstaver, fremkommer følgende tabel:

Antal	Bogstav
10	A
20	B
30	C
5	D
25	E
10	F

Antallet af de enkelte bogstaver kaldes i det følgende frekvensen af disse. Af hensyn til overskueligheden, arrangeres tabellen på følgende måde:

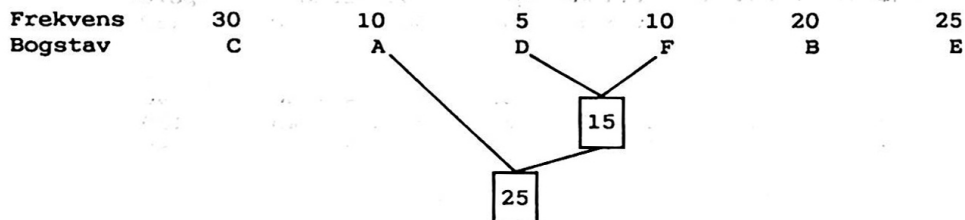
Frekvens	30	10	5	10	20	25
Bogstav	C	A	D	F	B	E

Vi finder nu de 2 bogstaver, der har den laveste frekvens. Det er indlysende, at D, med frekvensen 5, er det ene bogstav. Om vi vælger A eller F som det andet, betyder intet. Vi vælger F og trækker en linie fra D og F og danner en knude (kassen nedenfor).

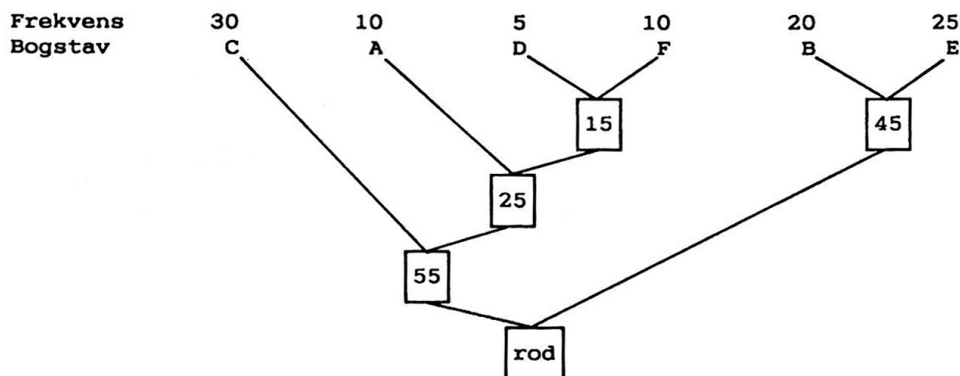
Frekvens	30	10	5	10	20	25
Bogstav	C	A	D	F	B	E

15

Tallet i kassen angiver frekvensen af bogstaverne D og F tilsammen (5 + 10 = 15). Nu skal vi igen finde de 2 laveste frekvenser, men D og F betragtes ikke hver for sig; vi benytter den dannede knude. De 2 laveste er nu A og DF.



Vi fortsætter på denne måde, indtil vi ender med een knude, dvs. hele træet er bygget. Træets blade er bogstaverne i toppen.



Da træet nu er lavet, kan vi begynde at squeeze filen. Vi starter (altid) fra roden. Når f.eks. bogstavet C skal kodes, starter vi fra roden og følger grenene op til bogstavet C. Hvis vi går til venstre noterer vi en 0-bit; til højre en 1-bit. For bogstavet C går vi først til venstre (0-bit) til 55-knuden og derefter til venstre igen (0-bit) til C. Huffman koden for vores bogstav C bliver herved 00. For A går vi til venstre til 55 (0-bit), til højre til 25 (1-bit) og igen til venstre (0-bit). Dette giver koden 010 for bogstavet A. Hvis vi gør dette for alle bogstaver, får vi følgende tabel:

C = 00	2 bit
A = 010	3 bit
D = 0110	4 bit
F = 0111	4 bit
B = 10	2 bit
E = 11	2 bit

Bemærk at nuller og ettaller er bit og ikke bytes. Hvert bogstav

var oprindeligt repræsenteret med 8 bit (1 byte) og da antallet af bit til hvert bogstav er reduceret, er filens totale størrelse reduceret. Følgende er sparet:

Bogstav	Frekvens	Oprindeligt	Squeezed	Spartet
C	30	30 x 8 = 240	30 x 2 = 60	180
A	10	10 x 8 = 80	10 x 3 = 30	50
D	5	5 x 8 = 40	5 x 4 = 20	20
F	10	10 x 8 = 80	10 x 4 = 40	40
B	20	20 x 8 = 160	20 x 2 = 40	120
E	25	25 x 8 = 200	25 x 2 = 50	150
Ialt	100	800	240	560

240 bit er 30% af 800 bit, så filen er squeezed 70%. Det var ikke så lidt endda. Der er dog en enkelt hage ved dette; når filen skal genopbygges, skal træet bruges ved dekodning. Da træets udseende afhænger af den enkelte fil, må træet nødvendigvis gemmes sammen med filen. Tabellen i vort eksempel har 5 knuder og 6 blad-knuder (bogstaverne), dvs. 11 ialt. Hver knude skal have 4 bytes som pointere til de næste knuder, dvs. i eksemplet  $11 \times 4 = 44$  bytes. Hvis vi også gemmer antallet af knuder samt diverse andre oplysninger, bliver vores træ-tabel omkring 50 bytes ialt. Lægges dette til de 30 bytes (240 divideret med 8) fra ovenstående tabel, bliver den squeezeede fil ca. 80 bytes. Da vores oprindelige fil var 100 bytes, har vi sparet 20%. Det vi egentlig har gjort, er at vi har oversat det oprindelige ASCII-alfabet til et nyt tegnsæt, hvor antallet af bit til hvert tegn afhænger af tegnets hyppighed.

En sidste bemærkning: Huffman-kodningen kræver, at filen skal læses 2 gange. Første gang for at tælle hyppigheden af hvert tegn; anden gang ved selve kodningen. Metoden er meget sårbar overfor bit-fejl. Hvis f.eks. een bit forsvinder mens filen squeezes, bliver resten af filen ulæselig.

### Crunching

Crunching blev introduceret af J. Ziv og A. Lempel i en artikel i IEEE Trans. Information Theory, Maj 77. I denne artikel blev princippet beskrevet. Siden skrev Terry A. Welch i IEEE Computer, juni 84, en artikel om den praktiske implementation af denne algoritme samt hvilke problemer der undervejs var opstået. Heraf opstod navnet LZW (Lempel-Ziv-Welch) metoden.

I modsætning til squeezing indeholder den crunchede fil ikke en træ-tabel. Desuden lærer algoritmen efterhånden som den kommer igennem filen. Hvis den undervejs finder gentagne byte-sekvenser, bliver disse kodet i en tabel. Denne tabel består (i NARC) af 4096 indgange, der hver indeholder 3 bytes. Hver indgang består af <PREFIX> og <SUFFIX>, hvor <PREFIX> er en pointer til en anden indgang og <SUFFIX> er værdien for denne indgang. Ved at benytte pointere

i stedet for værdier for <PREF>, øges hastigheden ved det fleste operationer.

At der ikke skal inkluderes en træ-tabel i den crunchede fil, er en klar fordel ved denne metode. Desuden skal den oprindelige fil kun læses en gang, i modsætning til squeezing, hvor filen læses to gange.

Ved crunching starter man med at opbygge en basal tabel, der kun indeholder 256 indgange; een for hver mulig byte. Værdierne ligger sekventielt fra 0 til 255. Hver indgang har følgende format:

Prefix pointer (2 bytes) og Suffix byte (1 byte).

I den basale tabel består suffix af værdierne 0 til 255 nævnt ovenfor. De basale værdier skal være i tabellen før man kan begynde at crunch eller un-crunch, da vi ikke forinden ved noget om filens indhold og alle filer kan indeholde disse værdier. Når tabellen er initialiseret, kan vi begynde at crunch.

Prefix peger normalt på en anden sekvens, men da der ikke findes nogen når vi starter, peger prefix initielt på en tom sekvens (NULL). Dette er et special-tilfælde, som man skal tage sig i agt for ved crunching af en fil.

Prefix og Suffix benyttes ved opbygning af lange sekvenser af bytes. Hvis vi læser den oprindelige fil og første byte f.eks. er bogstavet I, slår vi dette op i tabellen ved hashing (man beregner en "sandsynlig" adresse udfra bogstavets værdi). Hvis vi finder bogstavet i tabellen (og det gør vi da det er første byte), gemmer vi den hash'ede adresse (12 bits, da tabellen indeholder 4096 indgange) i out-filen. Hvis næste byte er bogstavet D, vil algoritmen undersøge om I og D findes i tabellen som en sekvens. Er dette ikke tilfældet (som her), oprettes en ny indgang i tabellen. Prefix for den nye indgang peger på indgangen for I (fra før) og suffix bliver D. Herefter gemmes koden for D. Indtil videre har vi altså gemt 2 bytes (16 bit) som 3 bytes (24 bit) i den crunchede fil. Gevinsten kommer først, når vi finder sekvensen ID påny, idet vi nu har en indgang i tabellen og derfor kan nøjes med at gemme 12 bit. Herved har vi sparet 4 bit. Algoritmen fortsætter med at suge viden til sig, indtil hele filen er crunchet. Man bør lægge mærke til, at tabellen ændres efterhånden som filen behandles.

I de tidlige versioner af crunching, stoppede indlæringen når tabellen løb fuld. Dette gav en meget dårlig komprimering ved nogen filer. I version 8 og 9 (NARC), findes en facilitet kaldet "adaptive reset" hvor tabellen slettes og der startes forfra. Dette er specielt værdifuldt ved store filer.

# Adresser

## SOFTWARE OG DISKETTER

Disketter samt CP/M-volumes bestilles ved CP/M-bibliotekaren. Husk ved bestilling af CP/M-volumes at oplyse om diskformat.

PC-volumes bestilles ved PC-bibliotekaren.

40 spor dobbeltsidet	pr 25 stk.	150,- kr.
Ved forsendelse pålægges ekspeditionsgebyr		20,- kr.
Volume fra biblioteket (excl. disk)	pr. 1 stk.	30,- kr.
Volume fra biblioteket (incl. disk)	pr. 1 stk.	50,- kr.

## BESTYRELSEN

### Formand:

-----  
Mikkel Moulvad  
Sofiegade 24  
1418 København K  
Tlf. 01 57 18 92  
(hverd. 17 - 19)

### Kasserer

-----  
Jørgen Petersen  
Sofiegade 24, 2.  
1418 København K  
Tlf. 01 54 91 76  
(man - tor: 20 - 21)

### Sekretær:

-----  
Mogens Kruse  
Digterparken 68  
2750 Ballerup  
Tlf. 02 97 38 38

### Disketteredaktør:

-----  
Carl Skovgaard Larsen  
Pærevangen 19, 1h  
2765 Smørum  
Tlf. 02 66 11 27  
(hverd. 19 - 21)

### Redaktør:

-----  
Leif Olsen  
Kildestrædet 46  
2740 Skovlunde  
Tlf. 02 94 98 20

### Mødearrangør:

-----  
Lars Gråbæk  
Esbern Snares Gade 6  
1725 København V  
Tlf. 01 23 92 36

### Fælleskab:

-----  
Tage Micheelsen  
Slotsherrensvej 48, 2  
2720 Vanløse  
Tlf. 01 79 11 68

### PC-biblioteket

-----  
Svend Mailand  
Borgbjergsvej 46, st tv  
2450 København SV  
Tlf. 01 21 64 35  
(man - tor: 20 - 21)  
Giro 7 49 91 40

### CP/M-biblioteket

-----  
Jørgen Petersen  
Sofiegade 24, 2  
1418 København K  
  
Giro 5 68 65 12

### BULLETIN BOARD

-----  
Tlf. 02 11 77 29  
Åbent hele døgnet  
300, 1200/75, 1200,  
2400 bits/sec, 8 bit,  
1 stop, ingen paritet

