**DuPage Apple User's Group
Disk of the Month**

VOLUME 48, July 1985

This disk originated with LOGIC and was prepared by Keith Falkner. It was released as IAC DISK #42. It is formatted with APPLE's Pro-Dos operating system. The Pathname PREFIX is /IAC.42/.

The programs included on this disk are:

MAIN DIRECTORY:

PRODOS--
This is the operating system file. It loads in when you boot the disk.

BASIC.SYSTEM--
This sys file allows us to use APPLESOFT BASIC.

STARTUP--
This program runs when you boot a disk and reads in the menu. You then have your choice of which program(s) to access.

MENU--
This text file was prepared with a text editor and contains program explanations.

CLEAN.LISTER--
This program prints neatly formatted listings of Applesoft programs. It's very easy to use, and offers two different listing formats.

APPLESOFT.TOKEN--
This BASIC program lists the vocabulary of BASIC and shows you the ROM memory locations for the machine-language routines used by BASIC to handle each word in a program. Here's an easy way to explore 6502 machine-language!

OUTER.XXXX--
These four files are intermediate steps in the construction of the demo program listed next.

OUTER.LIMITS--
This program performs three fascinating stunts, and offers no hint of how it does them. The more you know about your APPLE, the more surprising these stunts are, since APPLE'S documentation says they're impossible.

MINI-ASSEMBLER--
This is the one-pass Assembler which is hiding on your DOS System Master. It is documented in the APPLE II and APPLE //e Reference Manuals. This program runs at $6000 (24576) and is $140 (320) bytes long.

ORGANIC.CHEM--
This demonstration program asks you for the constituent atoms of an organic molecule. It then generates the molecule in the form of a rather crude drawing on Hi-Res Screen 1.

DG.XXXX--
These files demonstrate DOUBLE HI-RES GRAPHICS. You need 128K RAM to run this demo.

FIN--
This is a DIRectory file, or nested Catalog, containing over 30 short Applesoft programs, each of which performs a financial calculation.

FINANCIAL CATALOG:

HELLO--
This program is run first. It allows you easy selection of the dozens of programs available. If you find you've accessed the wrong program, get back here by typing RESET and then RUN HELLO.
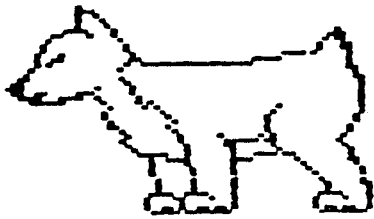
FINANCIAL PROGS--
This is a list of Financial Programs available. Their names explain their functions.

CHKBOOK.BALANCE	NUMBER.OF.DAYS	MORTGAGE.TABLE
AGE.INVESTMENT	ANNUITY	REG.DEPOSITS
REG.WITHDRAWALS	INIT.INVESTMENT	MIN.INV.WITHDRA
EFFECTIVE.RATE	EARNED.INTEREST	DECPREC.RATE
DEPREC.AMOUNT	SALVAGE.VALUE	DISC.COMM.PAPER
LOAN.PRINCIPAL	LOAN.REG.PAYMT	LOAN.LAST.PAYMT
LOAN.BALANCE	LOAN.CALC.TERM	LOAN.INT.RATE
COMMON.DIVISORS	PRIME.FACTORS	SECURITY.ANAL
OPTION.PRICING	BOND.ANALYSIS	BUDGET.ANALYSIS
TRIP.COST.ANAL	INVESTMENT.ANAL	LOAN.ANALYSIS
LOAN.REDUCTION	AMORTIZE.PRINT	

D.A.U.G.

DU PAGE APPLE USERS GROUP
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The DuPage Apple Users group (DAUG) is an orginazation of people who share an interest in Apple Computers. Members range from complete novices, some of whom may not own an Apple, to experts willing to share their knowledge. Monthly meetings cover demonstrations and reviews of programs, equipment and applications, as well as occasional just plain fun.

Membership is open to all who wish to join by paying a one time initiation fee of $8.00 and annual dues of $12.00.

Dues are used to pay for membership in the International Apple Core (IAC), rent for the meeting site, publication and mailing of the monthly Newsletter, preparation and maintenance of the Disk Library, and purchase of equipment and materials to improve the quality of presentations at meetings.

The DAUG disk library contains over 800 public domain programs contributed by members, other Apple Users Groups and the IAC. Each month there is a new Disk of the Month (DOM) available at the meeting for $3.50. Past DOMs, as well as various special disks can be ordered from the librarian. New members receive a catalog of all disks in the library. Monthly updates are published in the Newsletter.

The monthly Newsletter contains information about the meetings and timely club news, as well as reviews of software, hardware, publications, programming hints and comments contributed by members, including occasional reprints of articles from other Apple Users Groups publications.

You do not have to be a member to attend the monthly meetings. However, you do have to be a member to receive the monthly Newsletter, obtain substantial discounts at a number of local computer stores, participate in occasional group purchases and buy the club diskettes, including the disk of the month.

Meetings are held on the second Tuesday of every month, from 7:30 P.M. until 10:00 P.M., at: Lincoln Center, 935 Maple Avenue, Downers Grove.

(HJA/RPS/EED 3/86)

Special # 12

DAUG DoMs were first offerred as single-sided disks, with
an occasional double-sided volume here and there. NOW (and
remember you saw it here first) there's the four-sided
DOUBLE-DOUBLE DAUG DoM -- two double-sided disks (at a
special price, no less). Why? Because there have been so
many (1700+ and counting) different programs available on
the DAUG DoMs, that it's difficult to keep track of what's
what, what's where, and where's some more of that stuff?!?

Through the generous help of Bruce Mansfield, we are making
available a comprehensive INDEX of all 64 DoMs (both
regular and Special DoMs) issued to date. Thanks to Bruce,
who spent hours indexing, classifying and
cross-referencing, you can now find any program easily!

Why four sides? Because the entire collection of programs
is repeated three times: in numerical order by Volume
Number, in alphabetical order by program name, and by
program category (GAmes, GRaphics, and Spread Sheet
categories, for example). If you dont know the Volume
Number of the disk containing your program, all you need to
remember is either its name or the subject matter involved.
With just that information, it's easy to access the text
files on this disk to find the information you need.

Who needs it? (1) Anyone looking for a listing of ALL disk
utility programs (2) anyone who seems to remember a program
that dealt with Applewriter, but can't quite remember the
details ... (3) someone who's absolutely positive they once
saw an interesting program named Polygon Generator, but
doesnt remember when, or what disk (DoM 31) it was on (4)
or someone who wants to see a listing of all the programs
on DoM 42, before they buy it at the next meeting.

To make the disk as useful as possible, the files have been
saved in two different formats -- ProDos text files, and an
Appleworks database file. You can access the textfiles
with a wordprocessor (such as Freewriter, DoM No.52, or a
textfile reader, such as the one provided with this DoM).
The ProDos textfiles can also be converted to DOS 3.3
textfiles with Apple's Convert utility program. Then too,
AppleWorks does a nifty job of accessing the database file.

For more details about utilizing this DoM, and for some
insight into the contortions required to present the 1700
programs in a useful manner, read Bruce Mansfield's article
in this issue.

(PS: Thank you, Bruce!)
(PPS: for a limited time, the four-sided
DOUBLE-DOUBLE-DAUG-DoM is available for the special price
of $5.00!!)

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The D.A.U.G. Special Library is starting out the year with
a double-sided tutorial disk. This Special is designed for
the person who has just bought an APPLE or wants to do more
than just use commercial programs. If you are a new
user,orif you want to expand your knowledge of the
APPLE,this disk is for you.

Side 1 contains a variety of programs which explain
different facets of using your APPLE. In addition to a
tutorial on programming in BASIC, this side contains
demonstrations of the use of EXEC and ON ERR.

Top-down-programming is explained and demonstrated, as is
the 6502 CPU. GET TEXT will print text files to the
screen, and MAKE TEXT will create a text file, which can
be used with the EXEC command. You will also find
demonstrations of random access files.

The mini assembler tutorial will help you overcome
asteriskophobia (the fear of dropping into the monitor), so
that you won't have a heart attack when you see the *
prompt on your screen. The DOS instruction program wil
teach you the proper pokes, peeks and calls to achieve a
great variety of results.

All in all, Side 1 has some very interesting, educational
and downright useful programs. However, there is an even
better BASIC programming tutorial on the flip side!

Side 2 consists entirely of this BASIC tutorial. These
programs come all the way from Ireland and feature
excellent explanations as well as thorough examples of
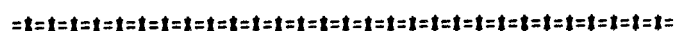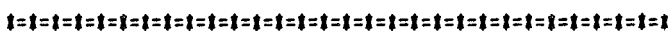BASIC programming.

Included with this tutorial is a BASIC Command
cross-reference program. This quick reference program
lists 66 BASIC Commands and provides short explanations
of each one. Also provided is a short example of how to
use the command within a program. Guidelines for using the
tutorial as well as helpful hints are provided on the disk.

Side 1

Tutor001,A,Intbasic,Intbasic.X,Applesoft,Basic
Programming,Basic Programming 1,Basic Programming 2,Basic
Programming 3,Basic Programming 4, Conventions,cpu
6502,Top Down Programming, Exec Demo,Get Text, Hello
Sample, Make Text, Micro 6502 Simulation, mini Assembler
Tutorial, Naked City (c), Onerr Demo,Poker, Random,
Apple Proms, Dos System Instructions

Side 2
Apple Tutorial, Menu, PT.1, Strt,PT.2,Help,Qref

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=== DAUG Special #13 ===

This month we have a Special Disk for you once again. It is called The Print Shop Graphics Maker and it makes creating your own PS Graphics as easy as Apple pie.

The disk features 56 new Print Shop Graphics ranging from an angel to a witch. There's even the DAUG dog!! Best of all, though, is the fact that you can now make Print Shop compatible graphics from ANY hi-res picture.

An instruction screen tells you how to go about making your creations compatible with Print Shop. The program is easy to use and fun to play with. Now you don't have to be limited by what Broderbund supplies! If you want something new and different, you can do it yourself with this Special Disk.

DAUG Disk of the Month # 55 - February 1986

This is the DoM you've been waiting for. It's chock full of member donated programs - programs that are fun, interesting, helpful, entertaining, and/or all of the above (we didn't use any programs that were none of the above).

This disk is double-sided. Side A is formatted DOS 3.3, Side B is formatted ProDos.

Included on this disk are the Christmas 1985 Contest entries. Each program has been identified with the name of the donor.

On the disk you will find a program that will help you decide which Illinois Bell service program is your best buy. You will find a number of HI-RES and LO-RES screens. There is a maze game for monochrome and color monitors. The disk contains a chess game, that lets you pit yourself against your Apple.

A program that calculates your car's mpg and a program that calculates your 1985 Infernal Revenue Service Form 1040 are both on the DoM. A very interesting calendar program is included, as is information about a programming language called FORTH.

In the educational arena we present you with a number of programs that will help you study a foreign language, as well as geography programs that take you to places you've never been before.

On the flip side are three (count 'em, three) spreadsheet templates concerned with that bane of modern existence - income taxes. Also on this side is a program that will create a text file containing the catalog of any ProDos disk. Another program, based on the first, expands it by making possible the creation of an AppleWorks Data Base File of all your ProDos Disks.

Last but not least, we offer you a program that will tell you exactly how many calories it takes YOU to accomplish tasks ranging from typing in this program to reading this newsletter.

SIDE A:

HELLO
DAUG.PIC
MMENU
DETLEF.XMAS.PIX
FINAL
FINAL.TEXT
JOHN.SANDORA.XMAS
WATERHOUSE.8-IRON.INTO.WIND
RALPH.STEIN.XMAS.FRACTAL
GENERAL FRACTAL CURVE
FRACTAL INFO
HARLAN.ANDERSON.XMAS
WREATH#5
ED.DANLEY.SNOW
ED.DANLEY.PHONE.BILL
PRINT USING
BERG.POTHOLDER
BERG.LORES.PIC
BRIAN.DUNN.MAZE.INFO
B&W.MAZE
MAZEB
COLOR.MAZE
MAZEC
CHESS.INSTRUCTIONS
HANNA.KRUCZEK.CHESS
BOB.KONIKOW.MILES
CAR
LTD
MILES.DOCS
HREJSA.LANGUAGE.DOCS
LANGUAGE FILE
LANGUAGE EDIT
LANGUAGE QUISS1
LANGUAGE QUISS2
HREJSA.DYNAMIC.CALENDAR
BASIC FORTH (JIM CORMACK)
BASIC FORTH INSTRUCTIONS
SANDORA.IRS.1040/1985
DETLEF.NATIONS/CAPITALS
DETLEF.STATES/CAPITALS
JAMES.CAMERON.SQUARE

SIDE B: (/DAUG.55.B)
 PRODOS
 BASIC.SYSTEM
 STARTUP
 DAUG.PIC
 CAT.DUMP   (CHUCK JONAH)
 FM.1040.85.V1.0   (BRUNO MARUSARZ)
 CALORIE.COP   (JAMES CAMERON)
 INCOME.TAX.FORM   (JIM CORMACK)
 INCOME.TAX.DEMO   (JIM CORMACK)
 AWK.CAT.DUMP   (BRUCE MANSFIELD)
 RESULTS.CAT
 RESULTS.AWK.CAT
 DOM.55   (AWKS CAT LIST)

Once again we have a Special Disk for you. Special # 14 is a program called <u>Callaway Golf Handicap</u>. It's the perfect program to have if you're in charge of a golf tournament. You'll find a description elsewhere in this newsletter.

DAUG Disk of the Month # 57 - APRIL 1986

This disk of ProDOS programs and instruction files was assembled for the purpose of making it easier for you to move about in ProDOS and handle your files in an efficient manner.

To begin, the STARTUP program is a well-written Applesoft program which allows you to view the directories and subdirectories of the volumes (ie. disks and /RAM disk) available. You may want to use this STARTUP program on a number of your ProDOS disks.

The program FILE.STAMP enables an Apple user who does not have a clock card (ie. Apple //c owners and many // Plus or //e owners) to put a date/time stamp on their files. This program is designed to run a STARTUP program once it is finished; therefore, you may want to change the appropriate line of this program if you want to use it in a different manner.

In the MISC subdirectory are several programs, including two other ProDOS menu-type 'startup' programs, a sound generation program, and a program designed to output 8 bits in Applesoft. BYTE.ZAP will allow you to search the surface of a disk and modify the bytes stored there.

The lengthy file entitled 'EXEC.FILE.INFO' is a document which will tell you some of the uses and techniques for EXEC files, both in DOS 3.3 and ProDOS. You will find this file printed in the DAUG Newsletter as a continuing article throughout the next few issues.

The COPY.FILE subdirectory contains a couple of programs which assist you in the copying of files from one disk to another. One of them uses the added ProDOS command 'COPY'. Once 'COPY' is installed, you will find it to be a useful addition to the ProDOS command library. Instructions for the use of these programs is included in the file.

The subdirectory EDITOR contains a ProDOS line editor which is designed to simplify Applesoft programming under ProDOS.

DISK.ED contains a program which will enable you to search, modify (and destroy!) the contents of your ProDOS disks. Read the enclosed instructions.

LEE is a series of routines from a LOGIC member which also provide a means of time/date stamping your files.

Happy programming!

/IAC.55

NAME	TYPE	BLOCKS
#PRODOS	SYS	30
#BASIC.SYSTEM	SYS	21
MISC	DIR	1
ABOUT.IAC.55	TXT	5
UPSTART	BAS	8
#LEE	DIR	1
#EXEC.FILE.INFO	TXT	32
#EDITOR	DIR	1
STARTUP	BAS	1
DISK.ED	DIR	1
DAUG.PIC	BIN	17
COPY.FILES	DIR	1
#FILE.STAMP	BAS	1

/IAC.55/COPY.FILES

#COPIER	BAS	5
#PD.COPY	SYS	4
#COPY.ML	BIN	5
#COPIER.INFO	TXT	5
#EXEC.COPY	TXT	1
#PD.COPY.INFO	TXT	7

/IAC.55/DISK.ED

#PBE	BIN	5
#PBE.INFO	TXT	31

/IAC.55/EDITOR

#EDIT.PRO	BIN	10
#EDIT.PRO.DOC	TXT	10

/IAC.55/LEE

LEE.INFO	BAS	5
SET.DATE	BAS	3
SET.TIME	BAS	1
ID.CHECK	BAS	3
SLOT.CHECK	BAS	3

/IAC.55/MISC

#ASOFT8.OBJ	BIN	1
#STARTUP.MENU	BAS	9
#PRODOS.MENU	BAS	3
#STAR.WARS	BAS	5
#BYTE.ZAP	BAS	16

BLOCKS FREE: 21   BLOCKS USED: 259   TOTAL BLOCKS: 280

ENGINEERING TECHNOLOGY

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VISKASE

DATE _____

SUBJECT _____

PAGE _____ OF _____

Prodos / dos 3.3

loading system and start up on
to Program disk

(1) Prodos
- will always have Program and
a "hello" start up program

2) need to load
Prodos system and
Basic system

(a) easiest way is to use "Copy II
Plus" copy program

Copy
Files

mark Prodos
Basic System

(b) using Prodos system disk

- boot up

- "F" utility from main menu

- select default (setting up drives)

- back to main menu
and go to " File Commands "

- Copy files

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DATE _____

SUBJECT _____

PAGE _____ OF _____

- Path name ?

   /DAUG / Title { dish
                { program)

- read all files
           hit return for each
      file (yes)

- insert Daug Wm dish &
      hit return (goes in destination
                          drive)
   Copy Prodos and Basic System

Note
Source is users disk

Daug / Wm is destination

2 Dos 3.3
   Use "apple II copy" program
   Copy files off of system master disk

      hit copy   move to
          ↓   dos
                                ↓