PERCOM INTRODUCES BASIC-LANGUAGE DOS FOR TRS-80*

Garland, Texas - May 30, 1979 - Harold Mauch, President of Percom Data Company, today introduced a disk operating system for Radio Shack's TRS-80* computer that works entirely with Level II BASIC commands.

Called MICRODOS,tm the program resides in less than 7K of memory, yet, according to Mauch, is both faster and more powerful than TRSDOS*, the Radio Shack DOS for the TRS-80*.

MICRODOStm was developed especially for business and professional applications.  It replaces TRSDOS*, which Mauch described as "ponderous, from a business or professional user's standpoint."

MICRODOStm operates the Percom TFD series of mini-disk systems, a family of small, medium and large capacity add-on storage devices for the TRS-80*.

MICRODOStm is supplied on a system diskette that also includes three BASIC programs:  (1) a file management program, (2) a disk utility program which illustrates how disk utilities may be written with only a few BASIC statements, and (3) a sample application program entitled "The Percom 5 1/4 Inch Notebook", an expandable disk-based "notebook" of information about MICRODOStm disk BASIC statements. The notebook may be easily accessed or changed by the user.

A system disk program menu is activated by power-up or reset.

MICRODOS$^{tm}$ permits the use of hexadecimal constants in expressions, and the user may add up to 10 of his own special functions to existing functions.  The full repertoire of commands and functions are listed below.

The MICRODOS$^{tm}$ system diskette, which includes the operating system, BASIC programs and program menu, sells for $29.95.  It is included free, however, with the purchase of one of the large capacity TFD-1000$^{tm}$ storage units.  Versions are available for all TFD models.

Orders may be placed by dialing Percom's toll-free number, 1-800-527-1592, and may be paid by check or money order, COD or charged to Visa or Master Charge credit accounts.  Texas residents must add 5% sales tax.

Dealer inquiries are invited.

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* trademark of Tandy Radio Shack Company which has no relationship to Percom Data Company.

MICRODOS$^{tm}$

Commands, Statements & Functions

## General Commands

CMD "F",D
Formats (with verification) the disk on drive D, where D = 0, 1, 2, or 3.

CMD "H",A$
Moves string A$ to a special buffer which is displayed when booting.

CMD "I",D
Formats a diskette in drive D and writes a copy of MICRODOS$^{tm}$ on the diskette beginning at sector 0.

CMD "K",A$
Moves string A$ to a buffer which is fed to BASIC as keyboard entries on booting.

CMD "M",D
Writes the MICRODOS$^{tm}$ system to the diskette in drive D beginning at sector 0.

LOAD DSSSS or
LOAD DSSSS,R
Loads a program on drive D, sector SSSS. DSSSS is a number or variable - D is drive number, SSSS is sector number. R option causes RUN after LOAD.

SAVE DSSSS
Saves the program in memory onto drive D beginning at sector SSSS.

MERGE DSSSS
Merges the program on drive D, beginning at sector SSSS, with the program in memory.

## Disk I/O Statements

DEF FIELD #N, N1 AS F1$,
..., NI AS FI$
Defines a disk buffer N, of up to 255 characters, as fields F1$ to FI$, having lengths N1 to NI, respectively.

FIELD LOAD #N USING A$
Loads A buffer from a string.
FIELD SAVE #N USING A$
Saves buffer contents in A string.

LSET A$ = B$,
RSET A$ = B$
Statements used to place data -- either left-justified (LSET) or right-justified (RSET) -- into disk buffer.

GET A$,DSSSS or                    Reads the contents of sector SSSS on
GET #N,DSSSS                       drive D into buffer N or string A$.

PUT A$,DSSSS or                    Writes the contents of buffer N or
PUT #N,DSSSS                       string A$ to sector SSSS on drive D.


## Functions

MKI$ (I), MKS$ (S),                These functions are used to convert
MKD$ (D)                           integer numbers (I), single-precision
                                   numbers (S) and double-precision
                                   numbers (D) into strings of 2, 4 or
                                   8 bytes, respectively; and, to store
                                   numeric data in a buffer.

CVI (I$), CVS (S$),                The converse of MKI$ (I), etc.  Convert
CVD (D$)                           string data in fields back to numeric
                                   data.

LOC (N)                            Returns a value depending on N:
   LOC (0)......................the last DSSSS (disk & sector) accessed
   LOC (1)......................the largest possible SSSS for the
                                   current version of MICRODOS^{tm}
   LOC (2).....................the status of the disk controller after
                                   an error - for advanced programming.

LOF (N)                            Returns length of data in buffer N.
                                   (N is a number from 1 to 4.)

DEFUSRX=N                          For defining user functions.  X is a di
                                   from 0 to 9.  N is the address of the
                                   user routine.

USRX (I)                           Used to call user-defined functions.
                                   X is a digit from 0 to 9.


The file management commands and disk utilities listed below are
from the File Manager and Disk Utilities programs included on the
MICRODOS^{tm} system diskette.  These perform the indicated functions
and also serve as models for writing programs which use MICRODOS^{tm}.

## File Manager Commands

All File Manager commands except EXIT may be preceded with a single-
digit disk drive number from 0 to 3 and a slash to indicate which
drive the command is to be executed on.  If a drive number is
omitted, drive 0 is assumed.

CHG                                Used to update file information.  CHG
                                   requests file name and prompts user
                                   for the various entries to be changed.

DEL                             Allows a directory entry for a file
                                to be deleted.

DIR                             Displays all information in a directory.

INT                             Initializes the disk directory on the
                                user-indicated drive.  Writes an empty
                                directory to the specified disk.

NEW                             NEW is used to add a file to the disk
                                directory.  Prompts are issued for
                                file information.

## Disk Utilities

Utilities are called by name, and EXIT is used to return to the
system menu program.

BACKUP                          Used to copy one entire diskette to
                                another.  Automatically formats the
                                destination diskette.  An essential
                                utility for business applications.

COPY                            Used to copy part of a diskette.
                                Copy data from one disk to another or
                                from one part of a disk to another
                                part of the same disk.

DUMP                            Useful for determining what is actually
                                recorded on a file.  Specified sectors
                                are read and displayed as printable
                                characters.  (Non-printable ASCII
                                characters are displayed as a graphic
                                block, i.e., all elements On.)

ERASE                           Releases disk space by writing empty
                                sectors over the space specified.
                                FREE displays released sectors.

FREE                            Searches a diskette for empty sectors
                                (data length = 0) and displays their
                                sector numbers.  Useful for verifying
                                the readability of a disk.

FORMAT                          Writes the essential control and timing
                                information on new diskettes so that
                                they may be used by the system.

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PERCOM INTRODUCES LOW COST COLOR DISPLAY SYSTEM FOR TRS-80[*], OTHER COMPUTERS

Garland, Texas - December 28, 1979 - Harold Mauch, president of Percom Data Company, announced here today that the Electric Crayon[tm], a low-cost, computer-operated color graphics generator/controller, is now in full production.

Designed to generate color displays on either a tv set or monitor, the Electric Crayon[tm] includes its own ROM operating system, EGOS[tm], which accepts single-character commands directly from a parallel ASCII keyboard or program-generated commands from a computer.

As shipped, the Electric Crayon[tm] interfaces a TRS-80[*] computer, but it may be easily adapted for interfacing to any computer.

Mauch said he expects the system to be used principally for color graphics generation and control, but he pointed out that the Electric Crayon[tm] is in fact a complete, self-contained control computer with provision for 1K-byte of on-board program RAM, an EPROM chip for extending EGOS[tm] and a second dual bidirectional 8-bit port -- over and above the dual I/O computer port -- for peripherals.

The Electric Crayon[tm] has 10 display modes including an alphanumeric-semigraphics mode, a second higher density semigraphics mode

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  Percom Data Company.
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(214) 272-3421

and eight graphics modes.  Up to eight colors may be generated,
depending on the mode selected.  In the highest density mode, requiring
a full complement of refresh memory, the display resolution is 256
picture elements by 192 picture elements.  An internal character
generator generates a full 64-character ASCII subset.

The Electric Crayon$^{tm}$ circuitry is contained in an enamel-finished
metal enclosure that is 2-1/2 inches high by 9 inches deep by 12 inches
wide.  All connectors and controls are on the rear panel.  The ac power
cord also exits the rear panel.

The Electric Crayon$^{tm}$ with the EGOS$^{tm}$ operating system, 1K-byte
of refresh memory (character-store memory) and a comprehensive users
manual which includes description and operating instructions, an
assembly language listing of EGOS$^{tm}$ and listings of BASIC language
demo programs sells for $249.95.

Options include:

* BASIC language color graphics programs on minidiskette:  $17.95

* A 34-conductor ribbon cable to interconnect the Electric Crayon$^{tm}$
to the TRS-80* printer port:  $24.95

* RAM chips for adding refresh memory for higher density graphic
modes.  (The Electric Crayon$^{tm}$ is shipped with 1K-byte of refresh
memory.):  $29.95 per K-byte

* The Electric Crayon$^{tm}$ Sketchpad, a sketching grid of proportioned
picture elements (pixels) laid out in a 3:4 tv aspect ratio for
either 128 x 192 or 256 x 192 graphics modes.  25-sheet pads on
11 inch by 17 inch stock:  $3.95/pad

Orders may be placed by calling Percom's toll-free order number
1-800-527-1592, and may be paid by certified check, cashier's check
money order or COD, or charged to a VISA or Master Charge account.
Texas residents must add 5% sales tax.

Dealer inquiries are invited.

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**PERCOM DATA COMPANY, INC.**

# NEWS RELEASE

**RELEASE:** Immediate

**CONTACT:** Harold Mauch
(214) 272-3421

PERCOM PC BOARD TO INTERFACE SPEAK & SPELL* TO COMPUTER

Garland, Texas - December 20, 1979 - Harold Mauch, president of Percom Data Company, announced here today that production of an inexpensive PC board, which will interface the Texas Instruments Speak & Spell* learning aid to a computer, will begin in February.

Mauch said the interface module, called Speak 2 Me 2$^{tm}$, allows a user to easily communicate with a Speak & Spell*, in BASIC, so that the computer may be made to "talk" using the words and phrases of a Speak & Spell* unit.

The words of Speak & Spell* optional plug-in module word lists are also accessible.

The Speak 2 Me 2$^{tm}$ interface was introduced as a fully working model at a personal computer trade show held last October in Philadelphia.

Mauch said the Percom Speak 2 Me 2$^{tm}$ generated an enormous amount of interest at the show.

The Speak 2 Me 2$^{tm}$ PC board is installed in a Speak & Spell* in the compartment which normally houses the batteries.  Power may be supplied from a simple calculator power pack.

Installation involves disassembly and some modification of the Speak & Spell* unit.

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Speak 2 Me 2$^{tm}$ with user instructions, TRS-80$^+$ computer driver software and a TRS-80$^+$ computer interconnecting cable will sell for $69.95. The cable, which connects to the TRS-80$^+$ printer port, may be easily adapted for other computers.

Orders are now being taken, and may be placed by calling Percom's toll-free order number, 1-800-527-1592. Payment may be made by cashier's check, certified check, money order or COD, or charged to a VISA or Master Charge account. Texas residents must add 5% sales tax.

Dealer inquiries are invited.

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*   trademark of Texas Instruments, Inc.

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ship to Percom Data Company.

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# NEWS RELEASE

**RELEASE:** Immediate

**CONTACT:** Harold Mauch
(214) 272-3421

PERCOM PROGRAM CONVERTS TRS-80[*] COMPUTER TO COMMUNICATING TERMINAL

Garland, Texas - January 8, 1980 - Harold Mauch, president of Percom Data Company, announced here today that the company now has available a program which will allow a TRS-80[*] computer to be used as a full duplex ASCII terminal.

The program, called TERM80[tm], loads a machine language program for terminal operation.

TERM80[tm] is written in Level II BASIC, and includes the following features:

* All RS-232 options are set through the keyboard instead of by switches.

* Terminal characteristics may be changed/checked at any time - even while on-line.

* Operaton is true full duplex - keys may be struck while characters are being received with no character loss.

* Operation is both upper and lower case, with shift-lock key. If the TRS-80[*] computer has been modified for lower case display, the CRT display driver is modified automatically.

* All ASCII characters may be transmitted. All keys will auto-repeat when depressed more than 1.5 seconds. The BREAK key performs a true break function.

* Received data may be echoed to the printer. This option may be turned on and off at the keyboard while data is being received.

* Provision is made for optional handshake to ensure that no characters are lost while operating above 1200 baud. This is a unique feature.

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TERM80$^{tm}$ is available on minidiskette with user instructions for $24.95.

Orders may be placed by calling Percom's toll-free order number, 1-800-527-1592, and may be paid by cashier's check, certified check, money order or COD, or charged to a VISA or Master Charge account. Texas residents must add 5% sales tax.

Dealer inquiries are invited.

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**PERCOM DATA COMPANY, INC.**

# NEWS RELEASE

**RELEASE:** Immediate

**CONTACT:** Harold Mauch
(214) 272-3421

PERCOM INTRODUCES MINI-DISK STORAGE SYSTEMS FOR THE MOTOROLA

MICROMODULE* AND EXORCISER* BUS


Garland, Texas - July 27, 1979 - Harold Mauch, president of

Percom Data Company, announced here today that the company is now

manufacturing two models of mini-disk storage systems for Motorola's

EXORciser* bus and MicroModule*.

Designated the LFD-400EX$^{tm}$ and LFD-800EX,$^{tm}$ the systems are the

newest members of Percom's LFD family of mini-disk systems for 6800/6809

microcomputers.

Mauch said the low-cost Percom mini-disk systems -- complete one-

drive systems start at $649.95 -- are the answer to affordable high speed

mass storage for EXORciser* and MicroModule* computers.

Support software includes assembly language program development/

debugging aids, advanced disk operating and file management systems,

a data base management system, a Super BASIC interpreter and a

selection of business application programs.

Mauch said the reason Percom is in such a strong software position

on these new mini-disk units is because the firm's 6800 mini-disk

systems have been in production since November 1977.

The principal difference between the LFD-400EX$^{tm}$ and LFD-800$^{tm}$

models is in data storage capacity:  the -400EX$^{tm}$ drive can store 102K

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bytes of formatted data on 40 tracks and the -800EX$^{tm}$ drive can store 200K bytes on 77 tracks.  Both sides of a minidiskette may be used for storage with the -400EX$^{tm}$ model.

A single-drive system is supplied complete with a controller/ interface PC card, an interconnecting cable, a drive power supply, an enamel-finished metal enclosure, a user's manual and MINIDOS$^{tm}$, a ROM on-board operating system.  Multiple drive systems include additional drive power supplies and a multi-drive cable.

Prices are as follows:

| Model | 1-drive system | 2-drive system | 3-drive system |
|-------|----------------|----------------|----------------|
| LFD-400EX$^{tm}$ | $649.95 | $1049.95 | $1449.95 |
| LFD-800EX$^{tm}$ | $945.95 | $1599.95 | $2245.95 |

An OEM pricing schedule is available on request.

Orders may be placed or additional literature requested by calling Percom toll-free on 1-800-527-1592.  Orders may be paid by check or money order, COD or charged to a Master Charge or Visa account.

Dealer inquiries are invited.


tm   Trademark of Percom Data Company, Inc.

*    Trademark of Motorola Company


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PERCOM INTRODUCES GENERAL LEDGER SYSTEM SOFTWARE

Garland, Texas - April 9, 1979 - Harold Mauch, president of
Percom Data Company, announced here today the release and immediate
availability of an accounting/bookkeeping software system for 6800
microcomputers.

Called <u>Percom General Ledger System</u>, the programs run on computers
using the company's LFD-400$^{tm}$ dual-drive mini-disk storage device.

Mauch said the General Ledger System, together with hardware,
give small-business owners á business computer system comparable to
IBM's 5110 for less than one-third the cost.

Developed by a Certified Public Accountant, the Percom GLS may
be operated by a secretary with little or no knowledge of bookkeeping.
Moreover, the business owner needs only a superficial knowledge of
computers.

Features of the Percom General Ledger System include:

  *<u>Efficient operation</u>:  Account balances are updated immediately
   in real time -- time-consuming sorting/posting data processing
   is unnecessary.  Financial statements may be printed immediately
   after journal entries.

* <u>Adaptability</u>:  User selects and assigns own account numbers, and formats financial statements tailored to firm's particular requirements.

* <u>Easy-to-use</u>:  The GLS programs guide the operator throughout an application by prompting for user response with characters and non-technical questions.

* <u>Error detection</u>:  The GLS signals the operator if journal entries do not balance.  Invalid account numbers are rejected.

* <u>Audit trail</u>:  A Posting Analysis report program provides a complete audit trail to source documents.

The Percom General Ledger System accommodates up to 250 accounts. The General Ledger System runs under Percom's Super BASIC, and the two programs together require 24K bytes of RAM.

Minimum hardware required -- in addition to a 6800 computer and LFD-400$^{tm}$ drive system -- is a CRT console such as the Lear-Siegler ADM-3 and a line printer capable of printing on 8½ x 11 inch paper.

The Percom General Ledger System software is supplied on mini-diskette along with a user's manual for $199.95.

The disks and manual may be ordered by dialing Percom's toll-free ordering number:  1-800-527-1592.  Orders may be paid by check or money order, or charged to Visa or Master Charge credit accounts. Texas residents must add 5% sales tax.


tm  LFD-400 is a trademark of Percom Data Company.


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# NEWS RELEASE

**RELEASE:** Immediate

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PERCOM ANNOUNCES SOFTWARE TRANSLATOR FOR CONVERTING FLEX 2.0$^\dagger$ COMPATIBLE MINIDISKETTES FOR OPERATION WITH PERCOM LFD-400$^{tm}$ MINI-DISK DRIVE SYSTEMS

Garland, Texas - September 20, 1979 - Harold Mauch, president of Percom Data Company, announced here today that the company is now offering a software translator which converts FLEX 2.0$^\dagger$ compatible minidiskettes for use with Percom LFD-400$^{tm}$ mini-disk drive systems.

FLEX 2.0$^\dagger$ is the disk operating and file management system developed by Technical Systems Consultants for Southwest Technical Products' mini-disk system.

With the Percom translator, called FLEXTRAN, the soft-sectored FLEX 2.0$^\dagger$ minidiskettes may be read by the LFD-400$^{tm}$ and copied track-for-track on a Percom hard-sectored minidiskette.

FLEXTRAN is supplied on minidiskette along with utilities which may be used to convert FLEX 2.0$^\dagger$ files to Percom MINIDOS$^{tm}$ files, and MINIDOS$^{tm}$ files to FLEX 2.0$^+$ files.

The FLEXTRAN diskette costs $24.95. Orders may be placed by calling Percom toll-free on 1-800-527-1592, and may be paid by check, money order or COD, or charged to a Visa or Master Charge account. Texas residents must add 5% sales tax.

Dealer inquiries are invited.

tm trademark of Percom Data Company, Inc.

$^+$ trademark of Technical Systems Consultants Company

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## PERCOM INTRODUCES DATA BASE MANAGEMENT SOFTWARE FOR 6800 COMPUTERS USING PERCOM LFD-400 MINI-FLOPPY DISK SYSTEMS

Garland, Texas - February 15, 1979 - Harold Mauch, president of PerCom Data Company, today announced the immediate availability of a general purpose data base management program for 6800 microcomputers using PerCom's LFD-400 mini-floppy disk systems.

Written in PerCom Super BASIC, and called FINDER[tm] (File INformation on Disk for Easy Retrieval), the program allows users to define and access the items of data bases using their own terminology, and to customize file structures to their particular requirements.

Mauch said the user's freedom to choose his own words to describe data, and the random access capability of the PerCom BASIC interpreter, make FINDER[tm] a very fast and easy-to-use data base management system.

All ordinary FINDER[tm] functions may be accomplished with only five commands:  NEW, CHANGE, DELETE, FIND and PACK.  However, up to three user-defined commands may be added.  The procedure for adding commands is described in the FINDER[tm] Users Manual.

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Other features include:

* Ample use of prompts to guide the operator during applica-
  tions.  Prompt defaults are carefully chosen for efficiency
  of operation with least possible damaging results if user
  response is in error.

* Ditto mark may be used to enter repeated data when building
  a data base.

* Pack routine is performed automatically when using NEW command.

The PerCom FINDER$^{tm}$ requires 24K bytes of memory, and is inter-

preted by PerCom Super BASIC, an extended disk BASIC for 6800-based

systems.  The PerCom LFD-400 mini-floppy disk storage system is

used for file storage.

FINDER$^{tm}$ is supplied on a mini-diskette together with a Users

Manual, and sells for $99.95.

The program may be purchased from

> PERCOM DATA COMPANY
> 318 Barnes
> Garland, Texas 75042
> (214) 272-3421

Orders may be placed by dialing, toll-free, 1-800-527-1592.

In addition to checks and money orders, Visa and Master Charge

credit cards are honored.  Texas residents must add 5% for sales

tax.

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**PERCOM DATA COMPANY, INC.**

A BETTER DOS FOR THE TRS-80 :  NEWDOS+

NEWDOS+ is offered only to those who already own the RADIO SHACK
TRSDOS 2.1 and Editor/Assembler.  It was developed by APPARAT and
is available from PERCOM for $99.95.  NEWDOS+ comes on diskette
with 32 pages of documentation.  It is a modular system so that
after making a backup copy a user can delete unused modules to get
more storage space on the system diskette.  Modules from the original
TRSDOS 2.1 and NEWDOS+ may not be intermixed, but programs written
on one system will run on the other only if features common to both
systems are used.

NEWDOS+ consists of the following:

1.  Fixes for all known bugs in TRSDOS 2.1.
2.  Enhancements to make the DOS more useful.
3.  The latest versions of all utility programs previously
    offered by APPARAT.

Bugs in TRSDOS 2.1 that have been fixed include:

1.  Keyboard bounce.
2.  "APPEND" which did not work correctly.
3.  End-of-file markers which were not handled properly.
4.  "LOC" which did not always work properly.
5.  The "VERIFY" command which did not work properly.
6.  SYS3 bugs which crashed the disk directory.
7.  Several bugs which caused "LOST DATA" errors.

NEWDOS+ enhancements include:

1.  "RENUM", a machine language program executable from BASIC
    that handles all program line renumbering chores fast
    and accurately.
2.  A machine language program executable from BASIC that
    identifies all constants and/or variables used with line
    numbers.  Fast and handy for locating variables or constants.
3.  Ability to disable and re-enable passwords.
4.  All output to the disk is checked for validity.
5.  LOAD and SAVE functions run up to 30% faster.
6.  Diskette space is allocated in 1-granule increments
    instead of 2.  This saves space and allows all granules
    to be used.

7. New BASIC OPEN "E" function allows additions to an existing sequential file.
8. New "JKL" option outputs the screen display to the printer.
9. All DOS commands can now be executed from BASIC.
10. One-step entry to BASIC from DOS by placing the 'NUMBER OF FILES' and 'MEMORY SIZE' parameters in the calling command. An additional "CMD" parameter, used with DOS "AUTO" provides full LOAD-and-GO of BASIC programs when power is applied.
11. New LIST, EDIT, and DELETE abbreviations.
12. New BASIC scrolling commands.
13. Improved COPY command: copies full diskette.
14. New DIRCHECK command gives more detailed directory data (including directory errors) with output to printer.
15. New CMD"E" gives error messages.

APPARAT utility programs included in the NEWDOS+ package are:

1. Improved Editor/Assembler with both tape and disk I/O and output to line printer.
2. Disk based disassembler with printer output.
3. The famous APPARAT SUPERZAP.
4. LEVEL I BASIC in LEVEL II.
5. LEVEL I disk SAVE and LOAD feature.
6. LMOFFSET for tape/disk transfers.

NOTICE:

Because of copyright regulations you must send an original Radio Shack TRSDOS (2.1) diskette to PERCOM when you place your order. PERCOM will make the necessary software modifications on the diskette and will return the diskette to you together with a second "back-up" diskette.

If you do not require the APPARAT utility programs you may purchase just the DOS.

NEWDOS+ (Includes the extra utility programs) $99.95
NEWDOS (Does not include the extra utilities) $49.95

*TRS-80 and TRSDOS are trademarks of Tandy Corporation which has no relationship to Percom Data Company, Inc.

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**PERCOM**

PERCOM DATA COMPANY, INC.

RELEASE  Immediate

CONTACT  Harold Mauch
1-800-527-1592

# NEWS RELEASE

PERCOM INTRODUCES MAILING LIST PROCESSOR FOR 6800 COMPUTERS
USING PERCOM LFD-400 DRIVES

Garland, Texas - February 15, 1979 - Harold Mauch, president
of PerCom Data Company, today announced the immediate availability
of a mailing list program for 6800 computers using PerCom LFD-400
mini-floppy disk drives.

Written in BASIC, the program may be used to create and maintain
mailing list files, including revision, packing and sorting; and to
print, copy or display selected file records (mailing labels).  The
operator has wide latitude in specifying what are to be the common
characteristics of the labels to be printed from a given file.

Mauch said the PerCom Mailing List Processor, as the program
is called, is a full function program that should be used with con-
soles which support data rates of 1200 to 9600 baud.  The minimum
console data rate is 300 baud.

The Mailing List Processor stores 700 labels per mini-diskette.
However, the data base accepts up to 9999 entry identifiers per

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diskette so that records may be readily adapted to higher capacity

storage devices.

Mauch said the program is "heavily loaded" with prompts to

guide the operator and protect files during the building and main-

tenance of lists.

Other features include:

* 11 search routines -- based on characteristics such as
  company name, zip code or user-defined label tag -- which
  may be very narrow or very broad, depending upon the search
  string defined by the operator.

* Files may be rewritten in place, using deletion and packing
  routines, or revised and dumped to another diskette.  The
  original data base is left intact for all routines in which
  data is dumped to another diskette.

* A list may be printed with a heading and with each label
  preceded by an entry number and tag, or the list may be
  printed without the heading and with the entry numbers and
  tags suppressed.

* File records may be sorted and ordered in ascending zip
  code numbers (zip codes may be up to nine digits), or in
  alphabetical order by last name.

* The printer routine will output 1, 2, 3, or 4 labels across
  the page.  A tab variable determines the label spacing.

The PerCom Mailing List Processor requires 24K bytes of memory,

and either the PerCom Super BASIC or Southwest Technical Products

(SWTP) 8K BASIC (version 2.3) interpreter.  If SWTP 8K BASIC is

used, it must be patched with PerCom's BASIC BANDAID$^{tm}$.  Among

other features, BANDAID$^{tm}$ improves the speed of SWTP 8K BASIC.  A

two-drive system is required to utilize all of the functions.

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The PerCom Mailing List Processor is supplied on mini-diskette together with a Users Manual, and sells for $99.95.

The program may be purchased from

> PERCOM DATA COMPANY
>
> 318 Barnes
>
> Garland, Texas 75042
>
> (214) 272-3421

Orders may be placed by dialing, toll-free, 1-800-527-1592. In addition to checks and money orders, Visa and Master Charge credit cards are honored.  Texas residents must add 5% for sales tax.


### PerCom Mailing List Processor - COMMANDS

1 - Create New File               9 - List or Copy Tag Number

2 - Add to a File                10 - List or Copy All Companies

3 - List File or Copy File       11 - List or Copy All Residential

4 - Correct or Delete            12 - List or Copy City

5 - Display Last Entry           13 - List or Copy State

6 - Search for Entry Number      14 - List or Copy ZIP

7 - Search a Company             15 - Pack File

8 - Search a Last Name           16 - Sort (by ZIP or Alphabetical)


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# PERCOM

**PERCOM DATA COMPANY, INC.**

# NEWS RELEASE

**RELEASE:** Immediate

**CONTACT:** Harold Mauch
(214) 272-3421

A BETTER DOS FOR THE TRS-80 :   NEWDOS+

NEWDOS+ is offered only to those who already own the RADIO SHACK
TRSDOS 2.1 and Editor/Assembler.  It was developed by APPARAT and
is available from PERCOM for $99.95.  NEWDOS+ comes on diskette
with 32 pages of documentation.  It is a modular system so that
after making a backup copy a user can delete unused modules to get
more storage space on the system diskette.  Modules from the original
TRSDOS 2.1 and NEWDOS+ may not be intermixed, but programs written
on one system will run on the other only if features common to both
systems are used.

NEWDOS+ consists of the following:

    1.  Fixes for all known bugs in TRSDOS 2.1.
    2.  Enhancements to make the DOS more useful.
    3.  The latest versions of all utility programs previously
        offered by APPARAT.

Bugs in TRSDOS 2.1 that have been fixed include:

    1.  Keyboard bounce.
    2.  "APPEND" which did not work correctly.
    3.  End-of-file markers which were not handled properly.
    4.  "LOC" which did not always work properly.
    5.  The "VERIFY" command which did not work properly.
    6.  SYS3 bugs which crashed the disk directory.
    7.  Several bugs which caused "LOST DATA" errors.

NEWDOS+ enhancements include:

    1.  "RENUM", a machine language program executable from BASIC
        that handles all program line renumbering chores fast
        and accurately.
    2.  A machine language program executable from BASIC that
        identifies all constants and/or variables used with line
        numbers.  Fast and handy for locating variables or constants.
    3.  Ability to disable and re-enable passwords.
    4.  All output to the disk is checked for validity.
    5.  LOAD and SAVE functions run up to 30% faster.
    6.  Diskette space is allocated in 1-granule increments
        instead of 2.  This saves space and allows all granules
        to be used.

7. New BASIC OPEN "E" function allows additions to an existing sequential file.
8. New "JKL" option outputs the screen display to the printer.
9. All DOS commands can now be executed from BASIC.
10. One-step entry to BASIC from DOS by placing the 'NUMBER OF FILES' and 'MEMORY SIZE' parameters in the calling command. An additional "CMD" parameter, used with DOS "AUTO" provides full LOAD-and-GO of BASIC programs when power is applied.
11. New LIST, EDIT, and DELETE abbreviations.
12. New BASIC scrolling commands.
13. Improved COPY command: copies full diskette.
14. New DIRCHECK command gives more detailed directory data (including directory errors) with output to printer.
15. New CMD"E" gives error messages.

APPARAT utility programs included in the NEWDOS+ package are:

1. Improved Editor/Assembler with both tape and disk I/O and output to line printer.
2. Disk based disassembler with printer output.
3. The famous APPARAT SUPERZAP.
4. LEVEL I BASIC in LEVEL II.
5. LEVEL I disk SAVE and LOAD feature.
6. LMOFFSET for tape/disk transfers.

NOTICE:

Because of copyright regulations you must send an original Radio Shack TRSDOS (2.1) diskette to PERCOM when you place your order. PERCOM will make the necessary software modifications on the diskette and will return the diskette to you together with a second "back-up" diskette.

If you do not require the APPARAT utility programs you may purchase just the DOS.

NEWDOS+ (Includes the extra utility programs) $99.95
NEWDOS (Does not include the extra utilities) $49.95

*TRS-80 and TRSDOS are trademarks of Tandy Corporation which has no relationship to Percom Data Company, Inc.