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CONTENTS The magazin for the Dedicated Atari User'



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DISK SECTOR EDITOR by David Rawlings

SERIOUS STUFF FROM ARY instrumed by WARREST IN REPORT LINES Change variables after your program is written TUTORIAL TIME by lon Finlayson CIRCUNG AROUND by Ann O'Drivers

FRUSTRATIONS! by Gordon F. Hooper TRANSDISK IV - SOME SOLUTIONS IN THE INCHION

SHOE PEOPLE reviewed by John 5 Daylson. SUSPICIOUS CARGO reviewed by John Sweeney

COUNT AND MOCULARISMOST PROGRAM HARLEGUIN reviewed by Domon Howarth Lofus Espell 2 - Horror Zombles - Feam Susuki - Video Kis THE STOS COLUMN by Divo Guy

PAGE 6 PUBLISHING'S Editorial

Insue 57 August/September 1996 The Magazine for the Dedicated Atasi Uses

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THE CREDITS

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Les Hingham that all the small due tipe to

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MOVING

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Les Ellieghan

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ES BETTER SOFTW

Mr. Faul Aghabet

Mailbag Witte to Mailbag, Page 6, P.O. Box 54, Statford, ST16 1D

SOME UPDATES I would like to comment or

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Thanks for such a great mag

MACHINE CODE

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CONTRIBUTIONS

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and a few bob in your pocket

Send WITE courtflutions to THE EDITOR, PAGE 6. DISK BONUS

CRYSTAL CRISIS



game by Peter Foote

PLUS TICTAC

new game reviewed in this issue

XL/XE TYPE-IN

DOUBLE

As in the finite has not the although current graph capital from the finite has been specially considered from the finite has been supported from the finite



SEARCHING FOR SECRETS

"SCAMPARS' will appear when you are in the correst positions," and oversoadly "SCHISTON" IEEE," or SCANCT FOR SCHISTON SCHISTON, "SCANCT FOR SCHISTON SCHIRTON SCHIRT

Bill Halsall

AGENTS MOVING ON

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TYPING IT IN

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THE CHEAPEST (and best?) WORD PROCESSOR

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V-WORD

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beed the prepayant from CSS until fig. II. Disary Lord option.
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"You can show hard the programs there you may remay in the crossword. In the control of the crossword, then the programs the steet of the crossword. In the control of the crossword is not control or provide mades a minister, and sworth between servers and then provide mades a minister, and sworth between servers and then the control of the control of the control or the control of the control of the control of the control of the provide mades a minister, and sworth between servers and the provide made and the control of co

adi, a cracking program, and one which will keep stanks amount for clays, it's fact, not too casy and in passed by a large range of interesting claus. These tales or American style wood-layecopys rather than the headsh crystic as talevol of dictional US puzzlers, bit is still a few arm in those your shifts.

AND FINALLY...

is a groat bely, because it enables me to determine just cought to be fortuned to the columns . . and what should it about NYNe, care of your forwards enqueter, OR7

HOW TO GET THEM!

All of the proposes features in the column are possible from
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first as the first information for the proposes.

These are in Edit and the Open Figure A, PO than Ed.

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Now Appl User - Incom 57

FIRST STEPS IN ASSEMBLY

Part 1

Daniel Lea starts a short series to show that machine

code programming is not as hard as you might think

I from ner a programmer flews programming in Nort Boole in Guy bir a shall be a son, reportedly if you are a games programmer, you have be recovered and speed which the programmer is not long to recover and speed which the programmer is not because of the North Boole in the state of the North Boole in the No

Monther code is fed between board of programming. This insusands and in a contention of their insusands for account of their and in the contention of their insusands for account of the contention of their insusands and their insusands and boards in industry, and a most in a many and and hower loss of their insusands and their insulation, that it mouth the insuspenses of their insulation of their insulat

executed, not portionalize unabranished dec. to the ordinary some all appropriate Amendaly languages are the other heavily to the sources for ordinary framework to program may have been also the foundations, and makes of these appropriate consists of draw feltre movements attaining the traditional matchine resist to advantages. Each (EGO) (Start's his environmental interface of the poor fromity 6 his, in own year clinic house instruction has a movement advantage for it or all AM various for Land Amendaly.

I reason to flots, as expery para cliffort between temperations have a memorial relativistic part in e.g. (LLM variants for Lund Archimistra, You die, by construct so paint marchiner code, most aperial waste to program as Amenicoloby. For counteyin the Assembler or controllage in a temperature, inhable, but show paint of more related to an expendit.

6000 processed in an in-thick inharchiner reviewing it can be suffered to a time or a most field individual relativistic and the suffered to a time or a most field.

THE PEGISTERS

The accumulation dignition (A) in the main general purpose regions in the 6000.
Two finder registers bigmitted X and 37 our other general compare regions; (A) and 1 at 6 to registers to can handle values does 0.500.
The program countries in the 6000 known where it is no interesting point to it the regions.
The contribution of the finders of the countries of the The processor abother regions of the topical.

If you've read and understood everything o

LDA and STA

LDA: Load Assumation: Point a specified figure into the occumulator. There are two bank forms with this instruction The first in known as formedicar Addressing which is where i figure after the LDA, indicated by # fixed), to put into the

A dollar nign IRI inc prefix indicates a cle

Assemption : LEAN W255
LEAN #88FF
... local the figure of 255 turn the accumulator

The necessal forms in known as Direct Addressing who remainer after the LEA valuates an address from who remainer to store in the accumulator in retrieved. Execution 1 DA 1556.

LEAR BOROO — If the address 1558 (BOROR) has 21 stored in Square will be headed belonifer accommission.

BTA - Effect Accumulator - Bissess the figure in the inter at a specified function.

Discriptor: STA 710

103.00000

With this basic knowledge or can now create the equivalent of the BANE; "FORE 710.0" for Indeed "SEECOLOR 2,0,0") and delices.

LEAR #0 SYR 710 on this little program on the Assembler Editor carter he following in EEE mode.

20 LIA FO 30 STA 710 40 EPK or the two spaces before each instruction.

Type LETT to see the program has gone in oking. Now to AMI: the program is now assembling bids muching connewers, there shouldly be no string chetched. Som typ You are now in belong tyuk! duty noed...) mode. 0500 the program (800) is the start address in becade think.

IOW IT WORKS

as yet in signification of our owner. Our programs is programs in the many as data addition, otherwise on in the significant content assembler would be significant to be significant to provide our owner assembler would be significant to provide our owner, descending would be significant to provide our owner, or of the significant of the significant of the significant of the significant of otherwise our owner, or our owner, or otherwise our owner, or otherwis

HEXADECIMAL

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BE AMAZED!

BE AMAZED!

arount proc on in what can be done with LDA and STA lord.

Alth - an explanation follows has jointly probably game what if
does anyways! Type in the following bising exactly as shown,
or it may not work.

(c) "=800000

That simple program is protty amoring loat: 97 thet you thought that such others were easily difficult to code, new y are beginning to see that machine code programming is not had after all!

Let's applian that JMP command. As you have probably generated JMP stands for JMP, it is, as you will have shread

search 355° stands for Out67°, 8 is, no you will have obveright and such, the equivalent of the ISASS COTO statement i.e. it can be in either of the IsaSS COTO statement i.e. it can be in either of the IsaSS COTO statement i.e. it can be in either of the IsaSS Isa

OF THE STATE STATE

New Assilber have ST

Argreny back to the pater. . to put labels in your program you stuply provide the treatmentain with a label, leave a single

LABEL () or more spaces (DETRECTED

o type in assembly language programs you must e to sloo . . Proof this it is important, Wills a normal i n. one not preceded by a labell you MERT insee 2 or

B.e. one not preceded by a label year MLST leave 2 or opocox, atherwise the assembler will fished year least a label and probably peaches on revue house pergram mark asymmyt. With labels you MLST leave only a nic otherwise the assembler will dark your label in an

vi as enser will be produced. Got all that? ... Good! for the preved fermats are:

1. Line number [1 speer only] LAREL [1 s speered Ri-STRUCTHOM

Line number (it spaces only library (it spaces) to the control of the number (its spaces) (INTELECTION
 Line number (its spaces) (INTELECTION
 Line number (its number program you can see that JMF)

MAKING USE OF LABELS

Two cast also care labels with the LBA and NTE mathestore, and cases others you are yet to be assistanced to. To make this first confid you refler define the fields at the legislating of your sounce casts or you see the LBTE or NORED assembly christisms (first or expanses the first confidence or explosived in the Assembles fidence cases of NY reas used the ability to define labels (a.g. (b)) spaces.

Sounder\$ to make our program topk a bit bean retire to use labels.

10 COLFES-60272 20 NYSYC-64203 30 VCOUNT-64203

50 Y-06000 50 START LIAN YCOLNEY 60 STA WENTE TO STA COMPTE 80 JAM SELVET

for you though FI give you short brey shord explanations CXLPF2 = Hardware register whose shadow is CXLOR. This controls the colour of the mersally blue purthe serves.

WESTER THE STATE OF THE STATE O

Using these locations you can ashieve the amoning effect new best lpottage I'll organd the program a little further later on, there are other possible improvements. INDEX REGISTERS

Accumulator but have other same two. You can had and them like the accumulation on we have how seen instruct LDX - Load Y LDY | Load Y

STX - Silver X
STY - Silver X
strong Y
strong the rathers between the registers union

TAX - Transfer Accumulator to X TAY - Transfer Accumulator to V TXA - Transfer X to Accumulator TYA - Transfer T to Accumulator

What the transfer metrostom actually does in to copy the thing into the accord thing: for X+10 and A+4 flow YXA will cooke A+30 for X will copy as a first or a flow YXA will cooke A+30 for X will accord to the first or XXA will cooke A+30 for X will accord to the first of the first flow for XXA will cooke A+30 for X will be a first or XXA will be a first or XXA will cooke A+30 for XXA will be a first or XXA will be a first or

IANSFER BETWEEN X and Y

ion cars also transfer Y to X or X to Y, but there are a reelfic leadoux them to do this. You need to use a pair shouthern to transfer X to Y:

to Granador V to X: TXX (Transder V to A: TAX (Transder A to X:

ADDRESSING MODES

Zero page direct addressing
The same as reveal direct addressing energy that this is oursel as page zero i.e. locations 0 in 205 (800 in 677)

Ploor are come unto the indicated addressing modes, this is always the X and X indicate registers come in restrict heavily. The first X and are independed direct addressing and once page balanced direct addressing. They are caucity the same contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contract of the contraction of the contract of the contract of the contract of the contraction of the contract of the contract of the contract of the contraction of the contract of the contract of the contract of the contraction of the contract of the contract of the contract of the contract of the contraction of the contract of the contrac

The former is [OPERATION] MADRESSLicenmeRX or Yandool e.g. LOA 706.X

led into the accumulator i.e. 706+X, X=2.

rquals 718 (no problem!) Note that these indexed addressing motes also work w LDX and LDE however you cannot use X with LDX or Y LDY.

Indirect addressing forest:

This addressing code only mode with JMP. What happen that the program youngs to an address NYTORED at 1550 are 1507, 8 must be two liptes because an address country of taken.

STORING TWO BYTE ADDRESSES

MORE ZERO PAGE ADDRESSING

The rest tree addressing nodes ONL's work with zero page addressing 1000 DeP, year resembler? These addressing page and colorous page 1000 DeP. These restricts page are colorously sended, but there is a debate shorting of zero page hardness which can be resent proprietly with IASEC zero page hardness which can be resent proprietly with IASEC zero Amendeds. Your break let is to start with addressing 200, 200 (ECR 457), 300 CM 300 ECR 101 or cannot be placed; which they may not agree with the Amendeds obstinger.

PPF-ORDERED INTERPRET GARDENSAM

Alambia in indervet addressing carryle as index is used a
ran be need with other community beater. JMC Non coll

X index is used.

Formal

POPENATION (Seven page address), e.g. LEA 9506,30 CA ANAMEDIAN of address showed how begin at 8000 of Anamediates at address showed how begin at 8000

Post-Indexed Indirect addressing This mode always uses Y as the toles. Forms:

FORESTICKE (Doto page address), X
e.g. STX (BOALY

Ther Annemalister at an address should low byte at 86
yer of 800, and then add Y onto the address place yer
worlder (Difference because poot and you hadden) and

There is one more addressing mode to introduce but since we haven't met the commands it is used with these's no point stilling you about it ... yet:

BINARY

Writer on the subject of number-bases it is as good a time ray to discuss the all important timery further spates. The consist of the grades is the subject of the subject of the spates of the Spates and the S

Secretary (1988) (1989)

0 x 64°0 x 30°8 x 16°1 x 6°1 x 4°0 x 2°1 x 1°0 A equato 26

Bit 7 is safed the MSB or Mort Egyphorn Dit and bit 3 is the LSB or Least Egyphorn Dit for obvious reasons. A type oat is displayed to the obvious reasons at MSBLEs, I can't have when the obvious reasons at MSBLEs, I can't have why they are called ribbins, I suppose it must be a trick of high the pairs (specific Specific Spec

TWO NEW INSTRUCTIONS

tions instructions, 200 and RTS.

JSR: , hosp in Subfamilier: reprintent in the BASIC COSUE and used in direct addressing.

6 - DER SATEN

or - DER SATENEZ/TINK

RTS - DOTAT from Submission - no address required with this

Well I loope you took that all in ... Next have I'll have so one programs to type in, so Assemblers at the resuly! It



change the Sept wa Sept critical. Spy vs Spy I - Let the other play Ser vs Sev II (Island Caper)

This must be Ingrid's front because

Inarid's Back is on the other side!

INGRID'S BACK



Part I Little Mouning No. 1 (IN 1977) THE F INCHMOST WHICH BEAR THOSE DESCRIPTION OF THE PROPERTY OF

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pleads for help with TEMPLE COP

made a few basies ago for help with SNOWHALL I have

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XL/XE UTILITY

DISK SECTOR EDITOR in 80 column format

A common which the dissure of 80 column best covered in the article and program in based 60, but its program double those the cloth space on arrival a display for 120 bits double those the cloth space on arrival a display for 120 bits down and depice, and or the industrial to 42 bits of the cloth depice, and of the industrial to 42 bits of the clother, though after two the disk in this way a usually in security to the clother of the clother of the clother of the models of flow can translate them have decimals. But the program affects the data to be included an effect.

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BACK IT UP!

The state of the s

LOAD SECTOR: As it implies this is to load a service.
You will be prompted for the service remotive, other type incides and press like ten or press except to cancel to load reparat.
 SAVE SECTOR: You only have to some a sector if you have made any changes and with them to be personned.

asked is confirm the more by histing the 'N' key for you. An other key will be taken us on:

3. EDIT SECTOR: The editing taken place on the decimal gibb. On redesting this a bias will be dissure in the top led hand covers. This is the reserve and it can be moved by David Rawlings presents a practical application for his 80 column text routine in the last issue

and the part of the sharp and provided and and the sharp and the

To comber you mish to change and press Two, and you with presupport to retart the new value. Ether type the new outsides and press theirs or press Douge and this will take you hank to the made seven. To each this read take you hank to fire made mean. To each this reade press. For their Europe.

4. RESTORE: This operan will change the newto on accurate took it is what it was before any officing took place. If it useft look it is what it was before any officing took place. If it useft

was when you had loaded it away option !
5. PRINT SECTOR: For printer cases this will print the decimal display of the sector.
6. QUIT: This will switze you had, to basic.

The programs is full of IPEM statements and these are for provenings and educational purposes only. This, and all other programs, will work perfectly well without three. Well that's it from me, new its pour turn? If you can third

how ST. Disse describes

SECTOR EDITOR

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SECTOR EDITOR

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Reviews

HOUS STUFF F tested out by Paul Rixon

ENHANCED POKEY PLAYER

SHERLOCK 1050

VAREDIT

Ever been stuck with a program that you have lost track of because your variables don't make sense? Richard Lewis has a utility that allows you to change variables after your program has been written

While writing programs in Dasic I have oben facad of I wrented to change the rasme of a natiable. I would have variables like V, X or 56 and I wanted these to have a more transferral of name. Also I or to designation to

to the continue of the continu

SOME BACKGROUND

configurated information will bein to understand just what the programs that is the and form to not to. First as well this air how MASS flates shower programs with the indemention funed in nonlight processionand books. In the Asian and Magging the MASS. Then we will had at the differences in Turbin Books which found out after willing this programs. Finally I will above how to see the programs and how to it works.

ATARI BASIC

After these time only three types of variables.

Artisys and bisings.

A neved Binds program consists of four parts

some is about their than the or the standard of the two problems, it would be used for shorteneously allows. The traphiles insides it also where he was a supplier of the standard of the standard of the above the standard of the When the progress is included that from two cuters about an arsistency of the standard o

recory Location

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Eyes are using Mari Basic type Y-PEERLING-2907FEERLINE FOR X-Y TO

PERMITSON-150*PERMITSON 1-1: PUTHO, PER and you will such manners of all the variables. The character of such manners in its insurance to the

The variable value side contains eight bytes for each sunable. The first beyer is the egypt byte which indicates what typof variable it is, the second in the variable number and the isset between the value of dimensions of the variable. If the variable in a numeric them the type byte is secon and its in bytes are the value of the numeric in Binary Carled Device.

even dissensionable or 64 if the graps has not been decreased in the sale lights, of facilities point for where the entry relations an absent in the straing and army tables, the second raw before a few first discovering of the entry and the fact two sets before even and discovering of the entry if it to ten-discovering and the results in a straing their the type is 100 if the owing in very discovering or 120 if the straing has not been deeper a special Cell from a fact, the first the open to the owing in seven discovering our 120 if the straing has not been discovered as

TURBO BASIC

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DUMP INTERPOL SAVE ERS UNKNOON

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Program overleaf 🖙

VAREDIT USER GUIDE

as the size of the program to be offset. This is two organs is sead in, added, the aboved version is need in and them the sold services in content. The disk should is the salese TITITITITITIT. The 'AAPRECT program and error the file name of in to be offset. You are their presented with the

ter changes.

• advances you the number o variables (e.g. +6, +28 or +996)

- all be later to it. The search state from the local variable 18 searches for a string of letters. Order the oring and prosell be based to the next variable whose name contents
- read variable.

 18. Impedition continued. This repeats the test commands that was not a name change. This is to be used with "It when you wish to change covered variables. Use "It is easier that the first continuence of the athing, changes, it represents in serial file. The first continuence of the athing, changes.

 If represents you have ser "16 to find the cost of continuence.
- it, if necessary, then use "It to find the ned considered."

 If the memory sealer, "This shows the time interrupt, by how much the total length of the violable battle from changed and the number of the workshots battle from changed and the number of the sealers that will be the whom the new version has been served to class.

 "LNI Set only numerics." Only numeric versibles will be class.

 "LNI and the searched for, Also the very first and total spend and searched for.
- validation will be disclared regarders of what type or validate in the bitted. The bender colour will sharp to include that you are in fair mode. **A. Bit any strings. **I. Bit any strings. **I. Bit any strings.
- *U to any unassigned
 *L to all types
 *X set the program and save the the changes to t sarrable table
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 - You can set the names, at his variables which are the sation to be the same. When you load the program to him it, at will still trust from an different variables even though you to be able to sall them aport during a letting. If you then LST program to a class life time EXTER it when host variables

program to a data for their EXTER's their host variations become also validate. Yes are remains a number variable to comerting entirely real. For exemple remains "CAR LENY to "CURL ENG. IN CURL START, POS. I NAT. Their when you LEST and EXTER progression. Yes have to remove any loss than the replaced to progression. Yes have to remove any loss than continent of

LENU to comething allow a copy of the program is change until you are used to how it works. You little of damage to a program if you set had not or carried to the program it you set had not calculate.

No de la lace

VAREDIT CR 1 FE4 MINES

See the second section of the second section

VAREDIT

00 1070 Late

VAREDIT PROGRAM STRUCTURE PROCEDURES

FIND TYPE

GET REPLY

DISPLAY NAME

FIND NAME

LOAL

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INITIALISATION

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TERMINATION

VARIABLES

NUMERICS

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CXB_DBB_PGB - the red position of the curvest variable.

CXB_LEB_ red benefit of the name of the current variable.

CXB_LEB_ red region of the current variable.

VAR. YPPE: the type of the convext variable DIM_TPPE: whether the convext variable has been do second NIV_VAR: the number of the new variable

variable

NEW_LES* - the length of the new name of the current
variable

OLD_VAR* - the old current variable number

LOW_VAR* - the lower ractable number is the bissey-

LOW VAR: the lower ractable number in the Minney is UP_VAR: the upper ractable number in the Minney is MEARCH_LERY the length of MINACOLD LINT_TYPE: the type of ractable to be based by the "L communication of the Commun

resonant

BEF_LEN: a difference in length

SEARCE_POS - the position to YAVE in start a search

STELPY - a pointer to a position in a shring.

CEAS: the SOC value of a electrotre in a string.

LEN_PATH: the position in YAVESON shows the life.

FILE LEN: the size of the file to be relied in seriors.
FILE FILE LEN: the number of leve seriors on the disk for
the new file.

table

LEN VAL - hough of the ractable

LEN, VAL. STATEMENT: the length of the statement table
PROOF, PT - posters to 1900s, PU
X. Y. Z. general counters

X.Y.Z. general counters **REPLY**: the cooperace the case makes to a yea no question **DESCRIPTION**: the disection of a move command:

PARAMETERS EXX. - the highest variable receiver HT - the size of VASA, that is the receivery rest

DR - the address of VALUES

CONSTANT NUMERICS

NY - ASC "Y"
YY - ASC "Y"
NO, TRAP - a trended line mander to clear the tripe

FLAGS

VALID - the name is a volid name.

STRINGS

VALUES the number takes take VALUES the number takes take VALUES the number takes of the variable open BOXING the toward former BOXING the toward former BOXING the recommend endowed by the same CHALLEGG the recommend of the takes CHALLEGG the recommend of the takes CHALLEGG to the load removed

ARRAYS

YAR_PTI - the pointers to observ each variable name via NNR. The last pommer. MAN, VAR = 1, pomm to the end of the names.
YAR_PTI: the values in the variable value table that on pound to each ratiable type.

COMMANDS

epets - just pressing return advances you to the a - advances you one natiable



PRESENTATION TRICKS

Making it look better

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BOTTOM LINE

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ROUNDING DOLLARS AND CENTS (OR POUNDS AND PENCE)

counts any framework on the strong department of the surprise of reverything after the decimal point. That is there if you should write it is reasold to a whole standor, and if you should work that it is not should write that what it been record on the premy in our handwidth of a point and the remove one handwidth of a refuse, many contractive deal in how, dividing of the most reverse week. When this is priced there is no data the relative to the data that the decimal point. In is also walk on the property of the surprise of the surpris

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record in the concern which counter endpy then always rearing any dense. In lower case we subtere there then in these terms are always to be a subtered the contract of the counter the counter and the counter always of a second counter and the counter and

decimal parts of a soft to the maximum of technology, 0.5 will be resemble, down and anything youther will be restanded by the down and anything youther will be restanded by the c. 490000009 ladd as name about an your bend to improve accusacy!) seed down apply the PST dearthes to ressent the customethal that. This to what happened.

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and I will try to help. My address in:

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TRANSDISK IV

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XL/XETUTORIAL

CIRCLING AROUND



SOME DEFINITIONS

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SIN and COS

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the central is one create with its nation of 1 such in the set of medic A : 55(00) is collisional to long again, and the beight of the Sand the creates of aught. A : COO(00) is whether in the long press of the creates of aught. A : COO(00) is whether in the long regul to the long in the long. C. It cleans, we were long the regions there is the long in the long is the long the long in the long is the long in the long in the long is the long in the long in the long is the long in the long in the long is the long in the long in the long is the long in the long is the long in the long in the long is the long in the long in the long is the long in the long in the long in the long in the long is the long in the long in the long is the long in the long in the long in the long is the long in the long is the long in the Ann O'Driscoll explains some of the mysteries of the maths commands built in to Atari Basic

MEASURING SYSTEMS

this case the DECREE spaces For instance, the point arough ND-degrees from a to b. 180 degrees from a to we from a total 400 degrees in a complete turn, a normally men the BREAAN system. The command of memory is degrees instead and the RAD of return it in radiant. The conventions can also be

OTHER FUNCTIONS

and langinst. For instance, the size of 10 degrees (or infinite) is 5.5 as the arvaine of 0.5 is 9.0 degree. The has a financian which releases the orthogene of a man coded ATM. This is fastly uneful, as a resolute us to what fir PL Going back is the circle in the diagram, upstal linear on angle of 45 degrees with the center in 6.8. 800,000 is 1 breases for lengthing (C. and 5 and

THE PROGRAM

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plot more position and reliance the aspect between them to get a consorter line. Another our would be to by the an intellad point or model by the plot is a tribull point or consorter line. Another our would be to be also a tribull point or point a sixtual point of the consorter. The exceed point of the being sear this amount of both or an ollique, which is point a sixtual which has been publish one plong if be X or Y stars man mean over the point of the p

screen. This shows the size values for different angles is the form 500 degree of princip. As Lea CSD statement the result is 500 degree of the result is size of the control of the cont

ADAPTING THE PROGRAM

It have already seen from the finding how the haaltered considerably just by multiplying COS(A) ant to clongate along the X axis. Some other cha ght like to try are:

Change on value of stretch or special.

Add executants to the Sin or Cox calculations for shade effects.

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GOOD NEWS!

The control of the co

No, it's not a new bible class, Paul Rixon has discovered some brand new XL/XE software from Germany!

DONALD

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OUTSTANDING SOFTWARE

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WHERE TO GET THEM

See Sed games can be preferred directly from Seemed Engage.

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FRUSTRATIONS!

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TRANSDISK

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The following back issues of

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COME AND SEE US!

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ALL FORMATS FAIR ALTERNATIVE MICRO SHOW

National Motorcycle Museum - Birminghan IOff Junction 6 on the M42)

SATURDAY SEPTEMBER 5th

10am - 4pm See us in Hall C Stands 34/5 Orb astilization - mark your dission now

ALTERNATIVE MICRO SHO

Stafford SATURDAY

NOVEMBER 14th

LOTS OF USUAL 8-BIT AND ST SUPPOR See further adventisement next issue

WE LOOK FORWARD TO SEEEING YOU THERE!

THE XL/XE REGISTER

Many Aisri oursers have found it difficult to find copies of New Atari Unor dise to several newcogenits being relactant to stock the magazine now that it is on Thin sole! A lot of oursers believe their newsagent when

they are told that use are no larger patlishing. To combat those problems use are setting up a register of residens use do subscribe to the magazine so that are can, once is white, used them with defails of our current actionists and perhaps special effer current actionists and perhaps special effer

from the world of Atori, scribe, please take time pome and orldness for L joj Hame

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IF YOU STILL WANT SUPPORT FOR YOUR ATARI THEN IT IS IN YOUR OWN INTEREST TO LET US KNOW - IF YOU DON'T REGISTER THEN SUPPORT FOR YOUR MACHINE WILL GRADUALLY FADE AWAY

XL/XETUTORIAL

FILE MANAGEMENT. SOME PROBLEMS AND SOLUTIONS

DISK DRIVES AND DISK SPACE

THE INITIAL PROBLEM

A LITTLE DISK INFO

START SECTOR SHO SECTOR PRES

IN CONCLUSION

BILL JACKSON, 68, MARTIN STREET,

DOUBLE CHEESE please, NOLAN

asked. Maybe next time. I would be very interested to a

Did you know that the auu o invented the Atari becan multi-millionaire with a chain of pizza restaurants but rearets ever selling Atari?

Mark Hutchinson

THE ACCESSORY SHOP



ag and an anne canacie per into view, in motor in which have been unavailable for come them. If you are a new areas prove with to intended by in an quality of some of these games and if you per in an and it tand your callection in not complete with and these games. Either was, those has answer before here the apportunity to cample the very before here the apportunity to cample the very that at least clearly collines at which ten attices.

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ENCOUNTER
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CLASSIC CASSETTES

OTHER NEW CASSETTES

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ADVENTURE

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ROBOTRON 2048

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with the Lynx

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amond with case whitey subces. There are 8-diver types sharing sized surred frings and renging up to greate and olive religion. Yas begin the game and there fore, such one ever stating of the

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reviewed by John Sweeney

HARD DRIVING

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SUPER SKWEEK

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pick, but an some he has to XIII all the guards or resear all the Showeather. There is a time faint for each level, some ac-CONTENN's glid within others goo you lot of them to squee. Bill consistent, codiest their raise, and then long power upon at the shape which accure every rough of levels. However, ope seat enhance your abotis or increase the number of squares you paint, others can give you exist long, put you come the exist. at your rank mach lists of different levels very couldy. One is to gain the ability to buy transact reades at the siles on ran can continue from that position must time you play, get codes not other shough because you're cody allowed get codes not other shough because you're cody allowed you codes per game and there are two bundred and filly ability to be a support of the property of the property ability to be a support of the property and the property ability to be a support of the property ability abil

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and level very branch.

A list of effort has been just into making some ready fivedash levels in this incredibly addictive game?

SUMMARY

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No Andrew Co.

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COUNT AND ADD

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otherwise it distributes a next of historiacid of

CLOCK AND CALENDAR

SETS 2 - similar in late 1 recent that the progress sales you to find to

MIX

JOHN S DAVISON FINDS OUT THAT SCHOOL ISN'T ALWAYS FUN!

MIX AND MATCH

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uning computers. The program is clouded to their main services, each of which residents six howeving games, in addition there's the 'word time' clock and relevales as found in Count and Add. TWO OF A KIND requires you

TWO OF A KIND. request you be match as related enhanced in the context of the servers with one forms a set of an bother displayed below 11. A positive server and below 10 positive proposed from set object to the sext, and you have to prove to impose the state of the shore to prove the impose the state of the shore to the server proposed to see the server of control of forms, they're called live are deports. They're called live are deports. They're called live are deports. They're called live are forms of forms, the first three are not captions.

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FORGET-ME-NOT again uses the same on games, they only one objete displayed for a given period of their a to their removed from the nerven. Up to

CLOCK AND CALENDAR
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ii. Seedander really should put more thought into the restentiament and reward side of their programs, some side antimation and better use of second on work worders have. It madd taris these rather sediancy relicutanced programs, tola momerities question.

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CHART ATTACK does bear com-

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" no qualms o recommending it

Board and Graphics - Tray comple

Overall - Excellent, impossible and

PD Paul Rixon's WORLD

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tage of asing it in the first place? For example, which the point of or other speedig slick, formative that tolers has an load to first! The solution, of example, is a shore all the social solit or one dishter, which just happens he load every conventioning outs the solit just of this beam's PD Works! or dish content of the solit or tolers.

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