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April/May 1993 The Magazine for

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Coming Next Issue ... CHOOKED BOUSE - a new MULTILOAD - a nest way of autobooting your disks

## DISK BONUS

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by Anastasios Bonidis

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NETWORK THE 8-BIT?

# KEYPRES

A Reference Guide to Atari's Special Characters

by Peter Kirton

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XL/XETUTORIAL

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Daniel Lea concludes his series on Assembly Language programming with a summary

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a complete walk-through by Simon Carter

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# TKANSDISK IV SOLVING SOME PROBLEMS

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RNHANCED DENSITY PROBLEMS

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Raphael Espino has some answers to some of the more difficult aspects of transferring from tape to disk

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a bander, if if it has then green Yell-worker press Nr. 20 year has been done in the first pression. Here, Nr. 20 year has been done in the first pression, then, Nr. 20 years and the pression shall be you mared the regist files (SPSECLER). Here were shall be you mared the regist files (SPSECLER) there were shall be you mared the pression of the pre

25580C2 - 157 SECTION TOTAL - 411 SECTION





pair would need at Need 41 little workness one your desidents. Type have the appropriate resulters of the western or me may now desilatation table, then you are adopt, softwaring to you the pair of the pair for ginner of most all have to be to table names manner, which, or the ginner of most all have to be to table names or manner of the decident for one as pair of the pair of the pair of the pair of the pair and destilatation may be to some deals, then them to me most of the pair pair of the pair pair of the pair pair of the pa

NOT SO COMPLICATED

The above procedure cars soom quate comploated at first, but you will soon get the hang of it. In fact most of the scall he quite above, this proces PETLEON or press PLAY and PETLEON. If a Discovery you do note in both to have a rangel of position's reast. However, you ran nor a research game which has a very about loading. How, and which you have gothership already transactory of idence to tackle the larger garner.

#### TECHNICAL NOTES

and in extendib hidden in the EAM under the O. S. EOM. A great method is a pass of the Common and the Common an

## XL/XEPROGRAMMING "

# SLIME BLASTERS

The first besing in this server in a gover model of LEGS.

LEGS and Albertage and Albertage in relevant states that the service of the server of the server

### HOW TO PLAY

more shape along the eigen of the impair, manning process request values. The first shap is result to be larged source, and below playing, when?

Once you have familied playing the game, you may waid to use the populate shat move the shape, sound the elevies and more the intensities, in your core populates. If so them need so

#### HOW TO USE THE ROUTINES

The sprite flavores on the Atast as a player) and minute southern work in conjunction with the 1990 (Player Monde

placed systems. (Note: caming our reasons you mine.)

(Note: all class for the player images and mined effects to moreous; Lieux 140 - 415

(Set up your display (Note lieb) - Lieux 700 - 726

(Set up your display (Note lieb) - Lieux 700 - 726

THE SPRITE ROUTINE

THE SPRITE ROUTINE

Steve Lakey concludes his series by letting you in on the programming secrets behind his games

of the parameters to this coll or specific Parameters to this coll or specific Parameters for Valid

This is the address of the vowine, which can be a where in available 3000, he you can see, if his to rate of the longituding of the calling command 8PB. Senate, O. 3.

6PW - Hanget D - 3 This is the spetts country, equal to the player number 9900 - Sunger See see! This is the base page of year PMO 2000 EMG AREA/2000. III

you care a different FMG area to the rate in Linking to menmunit be on a 25 boundary.

1862 - Found Stell Folid

The action address of the impact data for this particular to

This is the addition of the image data for this particular is if there is many flam one frame to your spile. This carbo should be the same still and be placed in memory, one if the other

PLN: Range: 1: 64
This holds the length of a frame, even if there is only one
PNN: -Range: 1: 200

ATF - Rouge: See len!
This is the Assimption Type:
0 - Wrop around unimarises
0 - 1 7 2 4 - 1 2 5 4 - 1

1 = Referend assistation (e.g. 1, 2, 3, 4 - 4, 3, 2, 1 - 1, 2, 3 Adding a 2 to ATF will shoot the routin

long as psysticks have been coulded with DRI ASP - Hange: 1 - 255 This is the Animalian Speed, 3-First 250-Vey

continued on page 28

SUME BLASTERS

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#### SLIME BLASTERS

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SLIME BLASTERS TO \$170 BETWEEN DO BOOK BEITERS SPRINT, 190, 190, 196 EL TREMS BIRGHTHESSELF, HESSELF, PROMPESS, ME PROCESS OF CASCAMARIAN CONTRACTOR PARTY BEN DEPARTMENT DESCRIPTION TALES DATE ORDERDOSSISSES TO TANDES

## SLIME BLASTERS JE 14229 DATA DESCRIPTIONS CREATIONS

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PRI 18100 DOTO T.127.T.7.7.7.7.7.7.7.7.7.170.2 7,7,354,7,48,7,167,7,169,4,-2 re letel or Hilmontonestembles DO 18080 DATA 2,385,7,8,1,5,7,180.2,170.2 70.1.004.1.00.7.18E.7.180.0.7.18 FM 10515 0010 9,1,1,1,7,200,7,100,0,10,2,10

TO DOTED BAIL B.O. D. O. 184, 230, 250, 127, PER

OF ARREST DES COMPONENCIAL ON TIRRE DATA 137,155,169,255,159,187,9,6 se limes care 127,74,187,755,055,182,8,40 CO 51884 9454 129,157,189,759,759,187,8,3 ,14,68,0,-1 21010 SER GERGHANIA #1805 PATE 0.0.0.0.0.107, 755, PSS, L89. I

Time care 7,7,2,2,2,0,0,0,0,0,0,0,0,0

YMN - Pompe: 39 - 277 YMX - Rouge: 32 - 212

PO 20730 0008 8.0.8.0.40.02.234.227.254.1

17.45.4.4.4.4.72 BE 28773 5016 0.0.00.182.20.0.0.0.0.0.180.3

DNX - Hanger 1 - 255

For physical collisions the value should be-1 Kindham with Collea 1, Los. 7009 2 Kindham with Collea 2, Los. 7009 4 Kindham with Collea 2, Los. 7109 5 Kindham with Collea 2, Los. 7110 These values can be odded together. For example, in to

These rations can be odded together. For example, in a ISVACIDES game, about collisions with the shield were a with a value of 11. shield or quale collisions with 1. 2 and For player collisions with value should be:

1. Exclinion with Player IS

1. Exclinion with Player IS

2 Ecolissis with Player () 4 Ecolissis with Player () 4 Ecolissis with Player () 6 Ecolissis with Player () These ration can also be added together. O

These values can also be added tagether. Once a collision in detected, depending on which spetie it is, one of the hour forations at 1809 1600 to closed, shopping the spetier. Also, one of the host forations at 1709 - 1701 is set in 1, individually the limiting stat, Lovarions 1907 is surgiced the variable CO, while 1700 is an angigned the metable HIII.

white I 1708 is assigned the ratisble HIII.

Setting STS, STV, UX and IAN to one will cause the spele to
be platted and immediately disable, turning the routine too a
platting country. Then is used to platt captions frame, when
heritantial coordinates can be financed at ferations 1704-1707.

THE MISSILE ROUTINE

not for the rainede command in-

STP, NET)
The passenters in this call are as follows

MSSELE - Range: Not York! Secretal for SPSTS: PMP-256 - Range: Not Hold

This is the FMO time page a 256, equal to the FMO as MSC - Rouge: 0 - 3 This is the massic number

This should be set to 3: MOD: New heat: A superd value, in the range 1 - 20, abouted be assimpted by two, then if you wish, add 1 -

Fees, there is you wish, add : ...
128 - Stope missile revening off the top-or bottom, respipering ...
1 - The residue breats FSC & FSY as memory bear the beat of the bottom of the beat of the state o

Penninder, the higher the spend the nurr arms, in the misself image data.

FE. Ronge: 0 - 256
This offset is added to the nutted horizontal posts

OFF: Ronge: 0 - 256

This offset is added to 1

DOR - See test:
A value to the range of 0-7 (See DER to spette routine capit

tions then if you wish, add one of three-+12H = Work for Intgory 1 +His - Work for Intgory 2

CLN - Forage: See door A value of 12th disabbles collisions detectars, while a 0 cm Meetile to Physicial collision and a 2 tests for Meetile to F rollision (New TECHEVICAL INFORMATION).

Volume tended for are identical in the CVL in the spetter cost explanation. The relevant HIT initiative will hold the missile number (1-4), that negistered the collision, useful for sensi feet lines 2000 - 5044

Disc lines 5000 - 5004 LNX - Hanger 1 - 200 The length to more horizontally

LNY - Forge: 1 - 225
The length to more vertically
PSK - Forge: See one

This is the initial hartmost described in the smooth 148-79 but if it I has been added in 3020; then the video is insink a second levelate. For example, by acting it is now of the players beriented guestions [1764-1785], the smooth still appear to have been found from the player For Lines 000-34.

ppear to have been fired from the player (See Lines 900:945) BET - Bange, New Lord bredied to 1950 energd for sectical player hazalisms, held in 508:1771, and a current position range of 33:208

80 - Hange: See cont. in in the address of the minute image claim. Depending on a minute that you are writing data for, the raines are different, each of the minutes are true bits wide and possible dat.

MISSELE 0 : 0, 1, 2, 3 MISSELE 1 : 0, 4, 8, 12 MISSELE 2 : 0, 10, 12, 48 MISSELE 3 : 0, 66, 128, 150

This is the longth of the image data \$TP - Ronge: See not This value is agained when it is zero, close it is assumed to be the address of the finar lytes, from which one is chiared on

the address of the last speed, some where one is related to HET - Hange: See host.

This value is ignored when it is zero, she if it is assumed to be the sales of the four house four which one is set to the

naterial remainer that search the relificion.

If you are determing a misside in playlided relificions, then XIT and HET are ignored. When a relificion with the playleds occurs, one of the four locations starting at 1932, will be set the misside number 11–4 that caused it. After collisions, said the misside number 11–4 that caused it. After collisions, rais side hextunetal constituates can be bound at 1964, 1966, 1966 and 1959, which contain it one officiaries in the bound at 1961.

1603, 1606 and 1606, for wholles 0 to 2 respect Moule collision stills: Colour 1 (Loc. 2001 – 1632 Colour 2 (Loc. 2001 – 1633 Colour 3 (Loc. 2001 – 1634

Colour 3 (Lec. 710) = 1634 Colour 4 (Lec. 711) = 1635 All fear manufes use the most recently o

Non-Resident broads

## TECHNICAL INFORMATION to the special resulting stateds. the redilinates detection works to

An the aposts restrict stands, the validation detection words ESCLLSPYC mode. As an example, a CVE, value of 5, world in Sprike to Physicid mode, would run stop the aposts until had let both, existent 1111 and 5 [4].

Now may wish the institute to words in YOAN (ISCULIANY, 100 with sould water and the size with the size with the property of the pages if it is not been example, which a general of it is not been existent with a general of the pages of the

spear to more in trust or our teamings, a section is not on or mend.

In one the sporter souther with SOM EXCLLISTIX mode, which you the sporter if may of the conditions trained for are hand and this line after the randized his boars placed in memory.

E.BE MUMBER) PORT (FOUTINE ADDRESS) 412, 57, PORT (FOUTINE ADDRESS) 414, 240 AMOUNT ESCLUSIVE MODE, which only stops the sprine E

2:0.9060 (BOUTINE ACCEPTION) 214, 208 c missile countries always operate to 5004 ENCLUSIVE de.

53350 - 53355 are Player To Playfield Registers 53350 - 53355 are Player To Playfield Registers 53250 - 53355 are Player To Player Registers 53260 - 53363 are Player To Player Registers Access stored to 532TH clouds oil cultinon registers, load oils

can be used if the species and misselic routiness are determine collisions.

If you are gaing to be; the above benations from ERSEC, who also using the specie and missele resultines. Even remarable if they can be saverbiddle, in its the ISOGEERS given.

There are a rounds of disorderatings to using the spatic and

are a comple of disactivatings to using the spelle and southern: see of Figs 6 (1506 - 1791) is evalidate, compt for

SOUND EFFECT ROUTIN

SOUND EFFECT ROUTIN

EXCEPTION and BA MARKET.

TO call the resident:
CALL\_LEGER (MCCEL, NOSEE, SPEED, NUMBER, TARLE)

NOSEE: Basser, Not called

NORE - Range: Not calld This is the address of the course and is entered two SPEED - Nonge: 1 - 255 NUMBER - Forger 0 - 2 That is the number of the effect TABLE - Honger And collect

ing This is the address of fire comet which to: Let comp. This absorble equal O

OE 0 and 1 are resided as a netter, 0 s
white 1 starts the effect from the b
white is currently playing where a 0
feet sudes. It will stop offer resides

rathers in the table as follows:
For eather Memory Securion law byte
2nd subset Memory Securion high byte
2nd subset Memory Securion high byte
To reserved a memory Securion high have byte/high-byte Securion

yea nee: - 18231-651 (00,000,000 and not reached to 1922) and to 1922 and to 1922 and to 1922 and to 1922 and 1

DATA lines.

2nd color: Effect plays when this value is found in the previously defined memory foresten.

An example of color 2 on the first value in ...

[LMI No. [DAVA 2, 122, 2, 6...]
With its second and that outries, it reforesees. LEE (2625)
6444, Leevision 644 fields the value for trigger one, which is
pressed returns a over, besset the 4th entry.

nut comes the extraol seasof continued volumes 0 - Should be put at the end of every communit lise. 1 - Should be followed by a channel number, 0 - 5 3 - Should be followed by a pitch value, 0 - 255

 Should be inflamed by a volume/distortion value intertion = 0.50cm. Moreoveries or 22 (Machine gon I add or 64 Eubouring regland or 228 (Machine gon I add or 64 Eubouring regland or 228 (Machine on three trends or 230 Machine record).

The values to teachers are only a gualiditis, which value the pitch value

4. Should be followed by a delay value, 1: 208 Using this information with the last comple-

5, 150. Use just take (100), then add a volume of t 4, 50. Hold the nate for a cosmi of filly 3, 160. galeton II. 3, 164. And again 3, 160. Secure

> in less had been PORZE into reveney and called, to read wait for trigger one, then the effect would be comit trigger one was tricated. If you don't work is comed, then you must always tribute your effect at coaled, the you must always tribute your effect, up to a coale.

consists sound, the three sounds in the control of the control of the sale. However, and prevent new offset, up to a manufacture of four, a shifteened sound channel, otherwise one which will proof the sale and another.

Introp useful and I look forward AUAR USER:

# ERROR MESSAGES

And their vertices a new orac code but in a dal on in which we have a second or the control of the control of

computer.

THE 5 - Value error

This just in stopping the novial principles or standard many to be employed a forestoning manufact of the

Error 4 - Too Many Vertables
To consider you can't expense your life.
Error 5 - String Leight Error
The impth of holes you cut in two wheel in concess of for your abundance.

Bits it the finderior. Tracine will living in the shales. Jive see large tracines and shales. Jive see large tracine and shales. Jive see 12 - Line Sec Found.

And Jir a change. the computer is occlup stopid, not you Rever 20 - Device Number Error.

Event 130 - Nessentatest Device

It is recovering for you to remember that you are only dreaming of policy a prison in the fallers. A local there

From 186 - Device Time-out four primer mode to hide/par soils the much. Errier 141 - Current Out Of Busings Externally to off the source has been been found to a second of

Error 142 - Serial Ban Dain France Overrax

Thurse's quite figured this one out per, but I mapped it has assessing in the trib people lighty flat FVEN' flat on the processor with lots of blood crossed.

ting to write it to disk or each researchers that the number WAYS MARC A BACK UP, In

You don't really understand those error messages do you? Gordon F. Hooper thinks he's got them cracked though

Berrer 167 - File Locked
This impact of you may people out.

Berrer 171 - Investid POINT

I shireds for Niepid User. This is the source of t require errors.

WHAT'S ALL THAT PRINTED STUFF IN THE BOX?

bestered for multi fixe does. You'll have no recall into a tilter of programme and the programme and the programme. The anticolour dealing programme and the solution of the programme and the solution of the programme and the pro

After they have that was of their systems, they still at classes and leak up the oppositions in the manning like of continuous and term is the page technicated in find or or what the system is and term is the page technicated in find our what the system is underliked from the pages of page technicated by the continuous flow in that waves was unsufficient from the pages of pages and the still the pages of pages and the still the pages of pages and the still the second of the first their pass would also friend world be assert crossing to spirit as passed which not become passed under the page of pages and when he becomes passed under the page of pages and the page and the pages and

eter down the taket.
New Monthlew hour \$1.

## CARD

### YOUR CARD IS ...?

TAKE A CARD, ANY CARD

A PAIR TO OPEN

Allan J. Palmer explains how to solve some problems if your Home Filing Manager cards are playing up

WHAT'S IN THE CARDS?

the data is slightly more thought the data was 'p couly roughted in the and special characters a after consolling 'COSS' loan' data to not stored routly decipherable is to using the FOCKE theem. This value is the rounder the country of the countr

MARKED CARDS

I said that f'é sighain why in sector 549 the netial value h for the start sector of the Eart data vase? is 18000, not past 18000. This willing of the log result fair is the means which indicates that a 'cord' in 'exacterd', which results in the pape

ripheing displayed an acrees when the particular learly is actioned.

Triangleille, the above should help found to retrieve his data.

#### REVERSED CARDS

the stand filter beaus of "Aust User" (Fig. 4, the CB by Guides) and a relation course (Fig. 4) and Fig. 4 and Fig. 4 and Fig. 4 and Australia (Fig. 4) and Fig. 4 and Fig. 4 and Fig. 4 and Fig. 4 for the described filter (Fig. 4) and Fig. 4 and Fig. 4 and Fig. 4 for the standard filter (Fig. 4) and Fig. 4 and Fig. 4 and Fig. 4 for the standard filter (Fig. 4) and Fig. 4 and Fig. 4 for the filter (Fig. 4) and Fig. 4 and Fig. 4 for the filter (Fig. 4) a

#### MORE TRICKS

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S.J. Burray, KOSAIG, T1 Wales Road, Tony, Asenben, MET 2X, Scotlan (Please male: cheques PC's proble to S.J. BURRAY). THE ATARI 8-BIT GOES MARCHING ON.

#### NEWS FOR CASSETTE OF

TRY BEFORE YOU BUY!

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# Some Basic Notes on ...

Ann O'Driscoll introduces you to the various araphics modes so you can begin to write your own programs

> MENU SCREENS IN GRAPHICS 1 AND 2

TABLE 1: CHARACTER COLOUR REGISTERS

Mean Two: The mone option names are original on

## GRAPHICS

#### THE PROGRAM

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00.12 THEN \$12 M. 4800 GROWN ALRESTON O.12 TO TRINSHIPS O. 0.10.12 MEST STREETS O.0.8.0.40000 4000 TO AIRS COLOR CC.PLCC 4.W. LIBRARCO LC. O. C. NAME AND ADDRESS OF TAXABLE PARTY.

Next issue ... Graphics 3 to 7 and text in Graphics 8

Mency Pour: The menu names are printed at rown 3, 6, 6

## Software

# **FANCY A ROUND?**

A round at the local golf club costs a packet so Patrice Robert tries out the game on his XL/XE instead

IT'S A FUNNY OLD GAME

# THE EARLY DAYS

### CETTING RETTED

THE MASTER GAME!

## BACK ISSUES



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#### A RONUS PROPERRIONAL GOLF, the clok boson of New April

## MULTICOLOURED TEXT

A see all home very soil, the Auri XI, (OC defaults to high laber and on a clader the headymand in Modnate delayed have avers used their are now we to jet offer out advanced from youthern lost in the receivery to jet offer and produced their control of the see and the second for a program to coplate how in the first Advanced for works to copy and the programming according to the program to copy and the programming according to the program to the programming according as a second for a program to the programming according as a second for a program to the programming according as a second for a program to the programming according to the programm

foreign 723 Inside the value for the handgement criter and from the text beginness. The condition of the services In this mode in 2001 FEG. To achieve studies condition of the services In this was a mode which seem a hower some conditions, we must first any analysis of the services of the services of the services of presently and fine purpose used in send is reason; games bestood in the reason along the condition of the reason and conditions of the reason along the condition of the services and conditions they are defined on an 800 good good, these sharedown are times of a 600, the good must be used as in taking intermediate limited to 400. The good must be used in a final, which must not a

> does in that wash first highly the characters as only three acts of 20 between his topographic, behaving to some that of 20 between his incorporated, behaving to some time and make the control of well of the control of the landing control of the least in that well colours of tent per weren?
>
> CREATING A FONT

CREATING A FUN I

Robert Stuart provides a routine to get away from those boring Graphics 0 displays

control destruction. The second SIMO of religion in the first in old plan And C [20] or 15. Trended and in fifth in the leader closured tend for abstracting games. Banklar 2000 services, and strategies administration games. Banklar 2000 services, and strategies administration games and second control tended tended to the second second tended tended to the second tended t

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practicages, happer faces and philosophical mathem. As well as

... XL/XE GAMES ... XL/XE GAMES ADAX OING II & SPEEDFOX



(L/XE GAMES ... XL/XE GAMES ... XL/XE GAMES **BOMB** 

took a very similar game

PLAYER'S DREAM III

Reviewed by Poul Rive









word woodshi by an upwarp



lan Finlayson's

## QUIZ TIME

and the continued these franches are then recommended to the Parish of the Parish and the Control of the Contro

THE BUILT IN TIMERS

PROGRAM FLOW



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OF LEC 7 THE RECET ANGELS HAS REPORTED THE THE 1 LABOUR WALL AND THE REST WAS

I AND RESIDENCE OF A STREET

CA 333 BER SEER BASE STORMAN STORM

CE last care you

THE QUIZ

### XL/XETYPE-IN

# DARTS

### CALCULATOR

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Richard Welsh presents a simple program that proves

to be surprisingly useful for those who like to throw the odd arrow or two

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