# DRAGON USER The inalgences

The independent Dragon magazine







## Open File This month's programs are Hearthest -

Software Reviews

RAGON Contents Letters



Adventure Trail Dragon Answers

4 Soundbox Masic Miner query, per friend warried. Pain D'Arcy shows how to teach you Shelfield Dragon Lisers Group, US Ples. Dragon to talk

Competition Corner 42

Editorial HOW ARE THE religibly fellen! Acors, once the during of the Unlisted Starworth, Even Sinclair has cut back on production and postunged the

Nor is this phenomenon confined to the UK. Sord, once described as boom years of 1980-60 are over and no one is make sure how his the

Dragon users, of course, are quite familiar with this situation business

Hopefully, once excess production capacity has been shed, the market will settle down again. The question occupying most peoples' minds at Letters

I RECENTLY had the mister

MONDER on about basis

Dragon charts. W Miles

TOP 13 charts and their many shoos have shown a bearing Donney Date's die

Software Top 10 2 (6 Orappe Chese 3 (-) Froger I-) Curport in Space

(v) 'Cr Level Maths (a) Pedra (-) Edit-

THIS IS a mine from an un-

IF YOU can't find a copy in year local shops, you can L35 TAP.

Key friend

or no flex by Brain Cadge - Dragon Over Febru

stew. I note that a recent

voure into program writing.... Get this into an envelope

If the programs you are writing introbe coefficience of rarchive you have to be considered or rarchive you have two

In the programs you are straing involve sophisticated payins, you have no consider the matter, so in the mean time send away for your fire Tookmasse Herstream and find our more about the best value 'performance graphs; tablet available... or take two pain killers'







TO ORDER © or post to O726 734.56 1 TRURO ROAD, ST. AUSTELL

## 6809 Show

Compusense imports Dragon 64s

releases

Screaming

LANCASHIFE BASED AND

Jet Set Dragon

Dragon roars



Mastertronic

#### COLOSSAL CAVE ADVENTURE DYNACALC .... FLEX DBASIC For DRAGON or DELTA disk system

■ Ki hy [416-Res Screen with true

CROSS

## ASSEMBLERS

DYNAFAST

DYNAMISER

DASM/DEMON

£15.95

SEND SAF FOR FULL AND CATALOGUE

EDIT +

MDUS COMPUSENSE LTD

Data saved to leaded from risk hu

BMS .... MANACEMENT COSTES

PRICES INCLUDE VAT

MAIL ORDER SERVICE 01-RE FOR 161 4 1 1 CAMP 4 500

## THE DRAGON IS BACK





Second
Second
Second Se



EXCLUSIVE DISTRIBUTORS COMPUSENSE LTD

## **Artist**

Brian Hinson explains how to turn your keyboard into an

PENTANO, " DOMINGO YAN DE ."
PENTANO, " - NOM THE BRY LEWIS A LINE
IS YOUR PEN COLUM. D - SERVICE
THE PEN FRON THE PANER. D - SERVICE
THE PENTANO YEAR. Of Their SECT.

1000 GODE CONTROL - WESTINGSTONEY - (PROSIDER)

1000 CASE PER TIME TO PROSIDE THE MANUAL PROSIDER

FOR THE THE TO REST OF HE BALL ROWGEST HERE

FOR THE THE OUT HE BALL ROWGEST TO

1000 FERS THE OUT HE BALL ROWGEST TO

1000 FERS TO ROWS OF TO THE CONTROL

1000 FERS TO WEST TO WEST TO THE CONTROL

1000 FERS TO WEST TO THE CONTROL OF THE Memory occurs and the same of Personal Control of the Same of Personal Control of the Same of t

DO ALLE AND TOURNESS TOURNESS TO THE TOURNESS TO

The control of the co

9) 0(7)(M

**Battleships** 

THIS PROCESSM provides a computer glots the positions of both its ships and

150 REH GET STORING ON THE TRANSPORTER BRITILESHIPSEE\* FOR KHI TO 1888 MEST K

200 PRINT\*THE COMPUTER HAS SELECTED THE POSITION OF IT'S SHIPS."

270 INDUT\*COMMUNER.AT WHICH POSITION OF YOU WISH TO FIRE SIRCL-1882": M:M=FIXCM

380 IF M 100 OR M: L THEN CLS-GOTGOTO

ON IT WAS INSTRUMENT LINE THE REPORT HOUSE HER COURSE.

OF THE PROPERTY HAS THE FOREIGN AND THE PROPERTY HAS THE PROPERTY HAS

560 BEMBERGAL TO THAT THE METER CLS OUTTO/TO COR DEM SOUND OF MISSILE SHE FOR VMISE TOLZO STEP -1 THOS SCHEW! 1 THOS STEP -1 THOS SCHEW! 1

740 6879 50000 0F HT 750 FLM\*\* TIGO 30 800 RDM in HT MMS 695H MMS.

THE SET IN HIT HAS BEEN HADE.

SHE PRIME SET IN HIT HER DEST HAD TO ARREADED SHIPDE HARM TO A PLATFUT TO A DOCUMENTORS OF COMPANIES.

SHIP PRIME SET IN HE SET HAD THE SHIP TO ARREADED SHIP TO A PLATFUT TO A DOCUMENT OF THE SHIP TO ARREADED SHIP THE SHIP TO ARREADED SHIP THE SHIP TH

SOU PRINTPLANDED LALL TABLE STORE DE LÉDES, SE-CH. L'EST-FREDUCCIONE SON EL PRINTPLANDER COMMISSION DE L'EST-FREDUCCIONE SON ENVIRONMENT CHI SE FUNDA COMMISSION DE L'EST-FREDUCCIONE SON ENVIRONNE DONT MICHAEL EST TO BE MIT SY MISSILLE.

\$60 ESP LOSSE DON'T MECH IS TO BE HIT BY THIS THE TOP PROCESS (SECRET LIFEL). 900 CHRAFTERS ON THE THIS CHIEF GARLELINE THE TOUL TO LIFE OF SECRETUL SHIPPEN LOSSES 910 CHRAFTERS (SECRETUL SHIPPEN LOSSES CHIEF CHIEF CONTROL CHIEF CONTROL

PHINT 110,70 5 1 1 PROHIT 124,72 5 1 1 DESCRIPTION OF THE PERSON OF THE PROPERTY OF THE PERSON OF

1000 RETURN 1100 DEST ONE OF SHIPS LOST 11100 PRINTYONE OF YOUR THIPS HAS BEEN LOST IN THE FOG" 250-250 1120 PRINTY TO 2000 NEXT ON CLS

139 SCH SHIP HAV BE FORMS DEFENDING ON THEM 1150 BLSS



## FOR DRAGON AND TANDY USER

THE ROYAL HORTICULTURAL H

Everymon esidd the first show was good!

"Over 7,000 percel estresided...geser good to gocision rest arons glored corty..." Drogon User, Jon 85.

"The show was a termendous seccess" omes de very success see everything and sid is centled when you want. The second 800 colour 3 how is a frestly second 800 colour 3 how is a frestly show, a good day out.

BOOD show "Genevaran Software..."

HOUSE TO GET THERE

"Monty thanks for the very wearthwhite about his construction of the construction of t

htery sizes, any pack up some semanting being related to the properties of the products. Over off compenses and argonization will be producted by the products. We will also be organized to event and conceptions of the products. We will also be organized to event and the products of the products of the products of the products. We will also be organized to event and the products of the products o

LONDON WEST TER

Computer Monketplace (Exhibitions) Ltd., 20 Orango Street, Landon WC

manufacturers will be staffing advice

dDFs for registered some of Autoro

FMC(62.5 SERSENT.0 MEM SECTION TO PRINT MILES OF TO 62-0 SERSENT SECTION TO SECTION TO MARKET SECTION TO SECTION TO FOR MARKET TO 152 STEP 16 62-65-1 TO MARKET SECTION TO 152 STEP 16 10 MARKET SECTION T

TOO FOR EAST TO 1000 NEXT BY 220 RETURN 340 REH USER HAS REQUESTED TO SEE HT-BUT COTTO-TANN HIM TO THE PROPERTY TO STREET, IN

See tennes 5 SCREEK 9

THE TAX PRINTED THIS ONE YOU DIE BENES SEE CHEMIN HAST LETERT YOUR DEBY, C BE FEEST (RESPONZE) WESTETT) THIS BILL HIS THE THAT HOW, HENDER HAST TO TO SHOT YOU STOCK IN HERBEY THAN THE WINTER THE MILE SEE ON A REDUCES CREEK AS IN THE PRINTED THE TAX THE STOCK THE STOCK THE SEE OF A REDUCES CREEK AS IN THE STOCK THE

## Dragon bulletins

doon with many software compares compares accordance for Engine for more injuried instances. The compares the compares of the compares of the compares of the compares for the compares for our handle Chappin is sort and open up man handlers. One forbinary is a mere builders beautiful to sort and open up man handlers. On February 17 a mere builders beautiful somptime is a visual-with FEMCET Under Sort of the compares of the comp

some software to drive it. Changes of Dragon 22 will also require an HS interface. However, this need not cast a forture.

I have been trying out the commun force packages supplied by Cassa Computes of 4 Middle Role. Child Roman, Claim, who can supply a comp communication package for the Drago Str 1580. Disk clive sever say still use? on 54 convers having in the feet built into their his state of the feet built into their his state of the feet built into their his state of the feet built into the f

away ideas and problems on the Motoboard section, and even set your smarried bits and pieces. If the demand is there, it will slike have facilities to uplace and downland the outware. But, the most important timing about PBES is it is for Dispon users to communicate with other Dispon users to help and harder the use and understanding of the Dragon computer—set of PTRES. am and 12 noon when the system will be spokere. The system runs on a Dragon 64 with specially written software and several state drawn.

deb offere. To decree 1935 first connect you To decree 1935 first connect you will be to the second of the connect you the modern to all the 300 AD But Offer or the modern to all the 300 AD But Offer or fings the allow section will transition fings the allow section will be allow and replace the septiment society. The allow the will have been allowed to and replace the septiment popular should then section the opening popular should then section the opening popular should then section the section of 10 AP AD But I will be allowed to 10 AP AD But I will be allowed to 10 AP AD But I will be allowed to 10 AP AD But I will be allowed to 10 AP AD But I will be allowed to 10 AP AD But I will be allowed to 10 AP AD But I will be allowed to 10 AP AD But I will be allowed to 10 AP AD But I will be allowed to 10 AP AD But I will be allowed to 10 AP AD But I will be allowed to 10 AP AD But I will be allowed to 10 AP AD But I will be 10 A

You will be about 50 williams your same when we have a common of the co

## **Forth Protocol**

Mark Varney explains how Forth is used as a language

Elementary routine

Assembler written in

O O VARIABLE AL O VARIABLE AS I S VARIABLE BY S VARIABLE BY C DESIRES PRECISION MOLTEPLY / 3 82 8 A2 8 UH B2 8 A3 8 64 BMSP -4 81 8 42 8 Ms DEDF 7 1 S . FIX DEL B BC IF S-)D B DEL / C FIXED-POINT FONDAMENTAL OF I TATH DAL 9 4 SHAP DO 18, De LOGP | / FINTS-POINT ABOUTION ) ( FIXED-POINT SOUTRACTION ) THE DE DATE OF DATE PARTY PARTY ( FINED-POINT MAINTIFLICATION ) 0) BY IF DATAME TAKE AND DADE I II . F. SWAP OVER DANS (E E E E E FIXED-POINT PRINT ) 17 44 NOLD 62 SIGH 6) TYPE 1

The numbers first here to be converted into fixed point

0.2000 OK

CUMANA Special Price Offer! DOUBLE DENSITY DISK INTERFACE FOR THE VHAVUN 32 % Trium Vurbinis (Companied Companied Companie organical laborate conscioles du Sir 1 station de Constitución S-YS-TEN OFFER 1: S-YS-TEN OFF 5-Y-9-1-EM OFFER 2: Double demails from Commons 5-5/x DD 500 data drive Common from transfer and Commons 5-5/x DD 500 data drive SYSTEM OFFERS, and Common St. OS 3 is E499.95 SYSTEM UPPER A: mm Commands 31; OD 352 and drive of the command of SYSTEM OFFER 4: Truntee of the and broducts are stocker to availability Limited other, all products are a All prices are inclusive of VAT. Onnen Form South Market Districts Office of the Control of the

Francisco de la companya del la companya de la comp

5 | COS 168 MAD | C PAI 7 98 \* STAT | C COS 8 JS 9

Examples of usey 90 SIME - 199

200 STAS .
201 FORTH to understand. There are here: 

"SHE FORTH to understand. There are here: 

"Lidding use stated on or mirror in the state and a consideration of the return states in ord. encours considerate the return states in ord. encours considerate and the return states in ord. encours considerate in the return states and the state of the states of the s

Temporary store

Any stock is simply a contiguous area of resmooty where data may be temporarily street. Each stack location may hald a single value, and the peason of the last

colors allocated to the states of infent is a "single." (Inc. 12" The state of infent is a state of infent infent is a state of infent infent is a state of infent infent

on the first open and the continue of the cont

is limited in advanded arithmetic options. Alempting in white a fast 3for integration notifies or an interactive of
in bear management system would push
is language for beyond its intended accotion.

Greatest strength

As a language. FORTH is not each
the "Deep knees", otherwise it would

the "Deep knees", otherwise it would

As a improper, CRIST's in not exist for the property of the property of the property of the portrains. The development of efficies (opport, straightforward and connecting or property of the property of the property of the property of the many property of the property of the property of the property of the term. The (present strength lines in term, the property of the lines in term, the property of the property of the property of property of the property of the property of property of the property of

W. Dramon User



Now you can improve your owner competing skills and it's easy to do. HOT CaCe gives you more practical information on the Deagon't than any other publication. Nowly 150 pages a month!

Every inno is packed with exciting new things for

a pix marketive command.
\*Ellmer's Areade—reply old fashioned areade style games on your computer.
\*The Basic Beat—learn everything you need to program in Basic.
\*The Educated Guest—clickover how to use your computer as a teaching tool.
\*Death ACTU—out assessment to your.

your computer as a teaching tool

\*Dectar ASCII—get answer to your
technical question

•Graphically Speaking—create eye-catching
design that and appeal to your programs

You also get a down cuty-to-understand articles
seeth. Camp activities are additionally assessed.

toterful) ... graphic ... odocation ... hardware proj. They'll help you request what you can do . And can program latting show you how to use what you lise. Ther's not all. HOT GGG seem you more you. "Canda for review help you make every purchase a yound investment." "Sidemarkee all key no companion-shop

Anderstative aids let you comparison-shop from home.
 New product amountements tell you what's available before it reaches the stoos.
 When product amountements tell you what's available before it reaches the stoos.
 What has a your fragertipe, your subscription add pay for itself with one wise purchase.

available before it muches the stoom.

Whe all this is vive fragetyle, your scheerlyden.

Whe all this vive fragetyle, your scheerlyden.

And BEOT COG is rish free. It you don't like you had been the source and noturn it to us. You won't owned a stoom of the you don't like you like yo

YES! Help are improve my computing skills. Send ms 12 imms of BGT GeGs for 944.57 (18). I unsidestant that with powersel enclosed or credit card order in tractice a FBEE imax, making a total of 13 imore for 94.457 (18). Ger of 18 imax FBEE size, making a total of 13 imore for detains of the contract of the contract of the contract during the course Mantercept. Visit, or American Eurose.

CHECKIMO DMC VISA DAE

CARDA SONTURE

SONTURE

CHECKIMO DMC DATE

SONTURE

NAME

FORT COCKS OF THE Place Street + Preschoorage, NEW 99-68 + 15

### Dragonsoft Dragons Parallel Addition to Parke

loney, money, mone

ON FUNNING his program

income. Finally, account numbers 41

skills and you think you are

rodesi, 41 Turo Rose, St Au

topes in order to newstate

### **The Dragon Roars** Part D'Arcy stoks how to

named across (POKOd) by BASIC

Soundhov Listing 1 - SOUNDBOX HEX DUMP

Listing 2 - HEX LONGER (Basic)

Lister 3 - SOUND SELECTOR (Besict A self explanatory sound menu

10000 111471

Cisties 1 20090801 HE1 DUMP 2000 IN RESERVED TO BE SEEN SHE 2001 15 44 65 75 40 55 54 40 50 50 1458 20051 10 88 AL SE 20 SH 46 CH 88 10 1858 20041 30 41 F4 FF 25 CN 80 F7 FF 25 1533 Bit 3 (\$60) of location SFF23, the 20071 -8a FF 20 84 85 86 85 87 FF 20 1675 DOMEST TO 40, 20 SEC 24 SEC 20 20 FO 25 SCS 1000 04 10 EJ 60 FS 19 88 24 82 84 EL 60 SKERG-SKERN) and her D&C round TARRE make second to Pag-2 we NAME OF STREET OF STREET OF STREET The PITCH SURROUTING IS QUITE NOT HE AT BE DO NOT BE AT 20 BY 1812 28(38) 84 84 29 85 64 8C 82 44 8C 67 (88) Sound is actually caused by writing a DENIE DEDINING TITLE TARK S REM HEXLEHBER HETH CHECKSUM 29 FRINTER, "IFRINTERS+E,"
38 FRINTERS, "IFRINTERS, "II DWUT C 2 OFDMOSS 12866119-19 AT THE PERCONNECT N 19 DF K#C\*1\* THEN KWW4\_(K#) | 607021 19 DE KINCTIT THEN K 25 DF K4+CH64 (81) AND 5+6+2 THEN 21

My version of LASER ZAP is created by

Evaluation tend to sound ragged, o

All any line that you wish to come

VLENEL, POR

Adjust the hex loader CLEAR Sire(I)



All action-packed 100% machine code

NEW SPEECH SYNTHESISER

J. Morrison (Micros) Ltd

SPECIAL OFFER

TABCSHIP
The pare in the Entereds series having your
consistent. The Series for VIV. on these

GUARANTEED



of the hill!

----------

## MONEYBOX Personal Accounts Program for Gragos 22:64 NEYECH program for personal accounts can are

credit card, flushing sealing, set, force-set or subsets of sealing sealing, earlier or subsets on sealing our studies where earlier much more. On Cassette Price 20.08 per sealing control of the flushing sealing of the flushing sealing sealing capacity, sealing sealing capacity, control XXI mayles. Teacher deliver as powerful earl servatile package, "gregorets leaf as powerful earlier servatile package."

#### MAII BOX

States rames, eddessess and up to 10 user-of fedits. Fast retrieval to hill performance, Select as of records by same laws, region and or user-defined tests. Uses IF-SUTI-SHIP (DVGC held compensors: "WILDCARDOS", sec. Pinds although the product of the production record and one present the production of the production of the and one present the production of the production of the and one principles.

On Dragondos (with Lover-case, etc.) Price
214.99
Cheques/Posfurber deals/busin requiring to:
HARRIS MICRO SOFTWARE

THE PROPERTY OF THE PROPERTY O

PREMARKABLE FANTANTE DETAIL

GRAPHOES 10076 - WALLE 10076 - W

Scott — Many other conjusting many and use they had loady

Tamak on teacher to say that fine in the day agent 1 had — all

Tamak on teacher to say that fine is the day agent 1 had — all

The conjusting to 2 had been and all other whethy believe

Conjusting 100 - all other and the conjusting to 2 had a servery to 2 had a servery

## CHAMIPIU

event stand, time game, fant our stand control country and the stand country and the sta

The control and Own on the control of the counts of the count of the counts of the cou

MAKE THE MOST OF YOU DRAGON 32

Indicate and Mobel Frowing. The hymogenificant games or the Dington are further in this lifely page benefit to white your computer behavior just as you hoped it would have you knowled in Progress include MAGC CASTLE WASH ATTACK SPACE SHICKLE PROTECTION PROCESS and CUSIES SHIES. Just 64-99.

Tembrer 6 Person send me the books indicated Dynamic Comes for the Diagno, 32 Making the month of your Diagno.

Same

L\_\_\_\_

And store

A QUALITY LIGHTPEN Dataper Datepen for the DRAGON 32 microon Dusive of VAT, P&P. Two different drow Feepands to different colours Also available for - VIC-25, CBM-64

Send chaque or P.O. for \$25 to-D.U.S Datapen Microtechnology Limited Kingsciere Road, Overton, Hants: RG25 3UB

IONAL SOFTWARE

UNREATABLE VALUE AT \$4.95 EACH POST FREE O LEVELICSE COMPUTER STUDIES PRO-FILE (C)
The revisinal and best cassattle based from system. Use your

Data Coding, Data Storage, Computer Arithmetic, Computer Also suitable as a general introduction to the computing world (Murris and Dada slease note). PANTASTIC VALUE AT \$14.50 PER SET POST FREE

#### MICRO DE-BUG CONSULTANCY Birmingham B29 7ER. Tel: 021-472 7610 Also suitable for Tandy CoCo Computer

28 Dragon User April 1988

## DRAGON OPEN FILE

your queries to

ce Glochell in Mothemberkand

CERMI simulates those basis

and makines which are beginning

in a warely of shops amount in warely of skills hall-shot and a short

writing a skill's hall-shot and a short

writing a skill be skilled and a short

writing a skilled and a short

writing a

Heartbea

) 32m-1m-2m ) 34m-1m-2m-2m ) 60R Avi 10 5 ) 0100

50 INTRICO, "heartbeat";:SCUMDICO, F C=1 TO SCO:NEXF

SO I TO DODINEXT

MEXT A PRINTERSO, "mant" Je "intru

F OB: "Y" DOTO 360ELSE 300

100 PRINTELIS, Ton Jarbest "Je"thesty "Je"press "Je"the" Je"spete" J2\*'bar "Je"again" |
100 Des Dasirelle Des (Chies (32) Them 160 D.18 170
170 Des The Stock (100 to 10)

C=INT(120/8) #401
PRINT9262,C:
IF C:=60 THEN RRINTS 258, "#151#1; "4160TO :

F C161 AND C170 THEM PRINTEDS, "well"14"conditioned": OD F C171 AND C105 THEM PRINTEDS, "average": 100TO 250 THE AND C105 THEM PRINTEDS, "average": 100TO 250 F C1=100 THEM PRINTEDS, "average":

200 PRINTPASS, "Hand "Serenother "Je go": 200 PRINTPASS, "Hand "Serenother "Je go": 270 Om | NASCTOLIF DESTY" THEN 400 DISC 200 200 IF OM | THEN 270 BLDE PAS

200 IF 08="" 0010 270 200 IL:00 210 PRINTEZ, "this "Je\*program"; #" calculates "Je\*your"; 2281

320 PMINT833, "heartrate": 320 PMINT878, "used"3\*"properly"3#"it"3#"can"3#"indicate"32#"how"3#"#it"3#"you"3#

340 950tralve, "but 'Partomember 'Seryour'se'heartrete' 340'can'se'alter' 28'd'amatic ally 'Se'alter' 2000'com's 'Se'alter' 28' at '28' 350 950fr't | mee'18'e' 18'd'teres' 38'd'alter' 28'd | save' 240'your' 38'd | properties the

Continued on page 31

## GIALITY SOTTMAN

## LINKWO The game is for 2 to 4 being to some points in the located using my if provided in your person

Daming to accine points by favoring was the found variety may be presented in provided in your genomission in configurate a discharationally california sources. In their discharation and stop formations, noticiting double and stop sometimes, noticiting double and stop sometimes, and security provide a growth favores etc. Their course provide a growth final returns may be useful pulsed and sometimes that course provide a provided provided and their sources and sources and and a provided and and a source and a source provided and a source provided and and sources. The source provided and sources are a source and sources. The source provided and sources are sources. The source provided and sources sources

COMPUTERWARE



Bargain Game at CS.50

CORRECT & New Editine (53.5)
"UREFUL PERKS & POKES"
The Joseph Warden have it - disable stream, LIST, CORNEL, vol. 191, 201, 2017
(See On Append with an Option over 13)

The second secon



MIDNICHT

FOR LOR 2 ADVENTURERS
INVEST IN THE STOCK MARKET.
LIV PROPERTY OR JUST GAMBLE
IT AWAY IN

RAT RACE

LYOU SETHE FIRST TO MAKE A SPILLOW

TOR 1-4 SUCCESS SUCCESSARY.

BILLTY IS THE NAME OF THE QU

GAMES AVAILABLE MAIL ORDER DRLY

COCCO PROCE MY GOALY SOR EACH PICE PAP

MAGIC MIDNIGHT

30 HANDEL CLOSE, BASINGSTOKE,

HANDE BOZZ 403

ESSE, GISPATCH

## R&P International

PRESENT CREATE HEADTER 1

RESTANT CREATE PLANTER 1

RESTANT CREATE PLANTER 1

RESTANT CREATE PLANTER 5 months (see of a relation of a relation

I to a finished administration on a confident formula.

The of regions prompted for more and for in terms for control points prompted and region for our improve finished asserting fields:

A second for the prompted and armount field in the prompted armount field in the prompted and armount field in the prompted armount field in the prompted and armount field in the prompted armount field in the prompted and armount field in the prompted armount field in the prom

INSTANT GRAPH PLOTTER 2

Instantion of the seasons' restart Stanf-Vallet 1 (20) for the selection facilities of the seasons' restart Stanf-Vallet 1 (20) for the seasons' restart in the season of the

WEW INDLESS NOUGHTS AND CROSSES

(SPECIAL OFFER)

EPECIAL OFFERS

\_

370 PRINT'then'Jetoress'Jesthe'Jetspacebar'Jetard'Jetatert'Jetcounting/Jettart

Conversion

30 PRINT'HHICH CONVERSION DO YOU R

50 PRINT\*(1) INCHES - CENTIMETRES 60 PRINT\*(2) CENTIMETRES - INCHES

100 PRINT"(6) KILOMETRES - MILES" 110 PRINT"(7) GALLONS - LITRES"

120 PRINT"(B) LITRES - GALLONS" 130 PRINT"(9) DUNCES - GRAMMES" 140 PRINT"(10) GRAPPES - CUNCES" 150 PRINT"(11) POUNDS - KILOSRAMS" 140 PRINT"(12) KILOBRAMS - POUNDS" 170 PRINT"(13) PARRENGELT - CENTIS

180 INPUT #

240 IF AS-"Y" THEN GOTO 20

270 PRINTRIAG, "INPUT INCHES ": 300 PRINTELY7, IN: " \* 2,54 = "1CH

310 PRINTE230, "CH = "1CH 320 FOR K=0 TO 15000; NEXT X 350 PRINTELAA." INPUT CENTIFFTEER "

370 LET IN+CM / 2.54

450 LET M+F + 0.3048 460 PRINTEL97,F1" \* 0,3048 = "1M 470 PRINTE230, "H = "1H 400 FOR X=0 TO 15000; NEXT X

510 PRINTRIAG, "INPUT METRES "; 540 PRINTEL97, M: 7 0, 3049 - \*4F 550 PRINTEZ30,"FT = "1F NAO FOR X=0 TO 150001NEXT X

500 PRINTELAS, "IMPUT MILES ". 600 LET KM+ML \* 1,6093 630 FOR X=0 TO 15000; NEXT 3

650 PRINTELS6, "INPUT KILDMETRES ": 460 LET PL=KH / 1,8093 700 PRINTE230, "ML = ";ML

710 FOR X=0 TO ISODO:NEXT B 740 PRINTELSO, "INPUT CALLONS ": 750 INPUT GAL 760 LET LIT-BAL \* 3,7854 770 PRINTB197,GAL; \* 3,7854 = "+1

SOFTWAY OF THE PROPERTY OF THE

FRUITY
Fruity is quite airquiy the best first expecime airmatotion envillable for the Oragion.
Forthers include realistic full apinosing needs, readings.
LOADM Held LOB Viginal.
Significant the reviews and garantee when Just
Department the reviews and prochain—DBACCH DAIS.

"Yer shelders a reality at machine" — OMACAL CAIL.
"Yes shelders, a year of more of first a patrion general."
"She shelders, a year of more of first a patrion general."
"When year of come and the shelders of the patrion of the year of

What strategy will you use to reach help's held of Emricanbet here in your begal, and must be to limit arms or codes: the eggs and select heat limit are codes: the eggs and delivers the coin. You inystic controls then self-heat he for the hamps, becale Court set the eggs with heat of the the reach was and the bear all gir hency. An extra was control or control to the eggs of the major Anterior was controlled our security as several. Full cooking with delivers in the treatest when several results could be a several to the control of the several results.

landare exploses increased in a contract of the contract of th

DRAGON 32 — SUPER SALE 51.89

Bibby Massic Atlant Memory Driver Memory 15 from Microbia Curtaent task from the foot Microbia Curtaent task from the foot Microbia Curtaent task from the foot Microbia Complete task from the foot Microb

David Part Select States State

Microdeal CA-99
Entry Rings
Every 453-99
Eve

STATE OF THE PROPERTY OF THE P

747 FLIGHT SIMULATOR
Spatty agents discharged by the control of th

26 Marrier Real Finding

780 PRINTECTO, "LITTE = "11 IT 790 FOR X=0 TO 15000:NEXT X 820 PRINTELSS, "INPUT LITRES "1

840 LET GAL-LIT / 3,7854 850 PRINTEL97, LIT; 7 3,7854 = "16

GAO PRINTESSO, "GAL - ": GAL 070 FOR X=0 TO 15000; NEXT 9 900 PRINTRIAG, "INPUT CUNCES "

910 INPUT DZ 930 PRINTB197,0Z1" \* 28,35 = "+6

940 PRINT0230, "GRAMMES = "+8 950 FOR X=0 TO 15000+MEXT X

900 PRINTELAS. "IMPUT RESPRES "-990) INPUT 6

1010 PRINTE197,81" / 28.35 = "102

1060 PRINTELSS, "INPUT POUNDS ": 1080 LET KB+LB \* 0,4536 1090 PRINTELT7, LD1" \* 0,4536 = "+1 1100 PRINTEZ30, "KB = "+KB 1110 FRE X=0 TO 15000+NEXT X

1140 PRINTELSO, "INPUT KILDGRAMS " 1150 INPUT KB 1160 LET LB+KS / 0,4536 1170 PRINTE197, KG; " / 0.4536 = "1L

1180 PRINTERSO, "POUNDS = ":LB 1190 FOR X=0 TO 15000; NEXT X 1220 PRINTRIAS, "INPUT FAMBUMEIT

1240 LET CE=(FA-32) + (5/9) 1250 PRINTB197, "("(FA) "-32) + (5/9) 17AO PRINTS230, "CENTISSADE - "+CE 1270 FOR X=0 TO 15000+NEXT X

## GO SUB TRACONT

Dan't lose out -- make sure you receive the next twelve issues of your favourite microcomputer magazine And if you subscribe for two years, you can claim a free book. Choose hore any one of these superb Sunshing

## Rapid sorting and execution

Cassette and manual £10 including postage and

4 Later Street, London SWS 55R



Marking no

ST only for both of these full SEK game.

Detailed Manual with full instructions and numerous

ELECTROANAL YTICAL TECHNOLOGY COMPUTER DIVISION

speech recognition, microprocessor control, etc. ANALOG CONTROL INTERFACE

## S.P. ELECTRONICS

\$350.00

S.P. PLECTRONICS, 68 Lindy Road, Hucksoft, Softs

CERTIFIED

## CASSETTE DECK

certified for use with the Dragon 32'64 before seas orders: please add £1.50

PEAKSOFT AN EMPTH STREET, BALDERTON, NEWBRK, NOTTS

GAMESMANSHII

DOMAN - DESANSUO - ALLEGY AN - PG person - Commission - the most property and contrar to

ADVENTAGE



















ALL TANDY GAMES ARE \$1.99 + 10m PAP



POUR STRATESP GAMES IS to and improve pour legisland methody to Degree 32-64. Embertups, Shander Condetenation and Emmer all on on the processing only Exists. Email changes Po-pill, Painter, 12 Habrid Cone, Ponto Co. Painter, 12 Habrid Cone, Ponto Co. Painter, 12 Habrid Cone, Ponto + DRAGON 32 A 64 + DOCUMENT OF THE PARTY OF THE PARTY The only figures MASON DIS SOTTANE MIT OF MASON DOWN - My PROFE P COS. HOLD SER, TO that count The circulation of this magazine is certified PUSINESSMAN'S EXPENSES YOU O. R. Constitution of the Constitution for the STATE OF THE CONSTITUTION OF THE independently to distance — P.E. St. Link.). Seed for more intermediate distance. All distances implemental distance for Date and Seed of Seed of Seed for Date professional standards Set deports is at thouse, I administered by the Audit Bureau of Circulations January-June 1984 35,379 DANGON SE YOU YOU CANNOT ABC READING 32 clear \$200 month of suffi The Hallmark of Audited Circulation CRACCH SOFTWARE or harpoin prices. Affinious rames, Sont see for obtain. 2 Cim. Nos. Coorde Res. Shappy Mind. Sone-tel. DRAGON IS, 27 to print not ner, section and Engine 20 for a si Charlotter.

-coming function, of worst quarty, store, agreements, 60 r. et on. 63 r. Qualitation. 14 Hillington From A Spread, 100 Florida 5 Residence (E) (E) Harmi Harmi Fameston POR SSE

SPRINT COMPLETE SS 50. Territ

Classified

STARBASE DEFENCE, Nov. Profeasocococo, Borbor, graph analysis natuscoco, All by only Cl. K. F. Namelli Stariuga Lone, Ournige, Marchelle MS 124.



words, at 20p per word so Lengtons

Address

Telephone.

\_\_\_\_\_\_

Classified

#### TOP VALUE LIGHT PEN DRAGON 32/TANDY COLOUR 32K/SPECTRUM 48K

for the Trojan light pers include the following fa-



\* DATA ENTRY AND PROCESSING \* MENU SELECTION AND CONTROL \* GAMES PLANING

A top quality per plus a first-class program

## Dragon Answers

connections

I AM typing to find sur where the
X and Y screen locations are legs.
I have built a light per flor asie
with the Vic, but do set knew hav
to program the Oragan to accept
inputs from a light per or even



Pyrioceth
The TEXT screen position is showed in Socioloss 336-332. To get the conviction print (6) position, as a peak (125) 256-peak (127) - 1504.
The propion is on-ordinate in I. Add the own

The graphics is as-ordinate is seed in loc 290, and the cotot y co-ordinate in loc 200, weren, without an interface to a Chapper's servicing port, the indicate an not use light periodish return sonces positions, by light servicine once which up into the joyetick ports.

What's your number? AM looking for a NDM addres the Engon. Specifically, i a oking for a NDM call submoth at it a called by MSG's me ownered interpretation loop a maintain color for the

in the Tragon. Specifically, I am looking for a SIVI call submitted that is called by SASIC in main command interpretation (sopthe main loop calls \$1, |in TPGAB Callor it is SASIC, when it is at 10 weeks; it is assumed that to week it is assumed that \$36,9,30° is periodic to the need that the following the need and final file A negative contains the first 50° of that command. After the filed of refuses, this

3 Limentenina
Cockete
SSIS despen
THE REAM address you need in
our on the Dropen in SMAM her
our on the Dropen in SMAM her
by different from the CoCk
modifier you mended in the after
"A" register need not be set up
fact.
Leadings 186-187 should an
ext up to point to the start of the
facts and up to point to the start of the
facts and up to point to the start of the
facts and up to point to the start of the
facts and up to point to the start of the
facts and up to point to the start of the
facts and up to the start of the
facts and up to the start of the
facts and up to the
facts

Read between

He lines

If the owner of a Doggon Diskette station rolled #0 printer.

Then I am using the last and bying to write and and bying to write

Robert 1 are uping the pittern and bying to write a th the Brytograph or the 1s the in the Splograph my g behavior the lines is so he distance behavior the line the distance behavior the line that the splograph my properties of the splograph properties of the splograp

(GS-8, but with no received to be with the control of a wark with the GS-6 system to wark with the GS-6 system to with the printer. If you shallow the time printer. If you shallow the time printer is sold on the control of a with the printer. If you also set me long. I also own a 785-50, Mo of I , with segambor into I, in it, consolide to the control of I and any point Diskelland to the control of I made any point Diskelland to the

John Its in the 1
John Its
Campliner
SIVI Lector
Re
Alex
St to me as it :

winter is ineving a Mask line winwen each printed line. This is ceased by CG-5 cottpelling with a CF and U node at the set of each line. You can get over this by altering the dip switches in your péchele, if pecalité, or dimensionly, aux the following procedure let 25-fc amade ap 11 (or stay automate feeting). If the stay automate feeting from the processing of the control of the control of personnels of state, then the control by GD and it. To your noticed specifics.

5 outposting the state of the real filter and first filter and first state of the real filter and f

seem to cause more than their

cats to 5539-3 (which to be the printer port in the printer port in the printer port in the printer port in the printer port to printer port to printer printe

I can't get no satisfaction

satisfaction

1997 been having routin open from the common fact of the common f

should plot a 1 if the pictors in realy. Fur pet a row with the pictor connected. Less the 'Deey' (appl. to set weeks, The pictor port is a SEZI PU "3" port. Error - what error?

error?

USING Test following short per
from to PEER, through the Size
POINT, I came across the size
ment "ESTEX 1000/PEE" at the
ment "ESTEX 1000/PEE" at the
ment dealer at better
ento dealer at better
ento dealer at the
entor message!

If FOR A = 33748 T

OPER 373 AND S LITTHER PRO
OPER SITE
OP

OHE III

JEST A

J Moon

J Short Av

J Short Avi

South Furnback

III "DOTRA lipson to

III message

peranted when the man

this are extend in an input

alternat. For example, if you

defend. For example, if you

de Z J limits' when the lips

l'ann are estored in an ingusidetneel. For example, il you enfor 2,3 jenter) when the inqui command reads ISPUT A, this message will be displayed, Unlike other errors it is only in warning, and the program does not stop.

Enfortunately, this is not man-

stop.

Infortunately, this is not a
ed in the explanation o
if command in the man
in the evers section.

## Competition Corner

## Four Dragon 64s to be won



diding the silguidation that restitive number (in global participation) and restitive numbers things (in the faithful — or even, you may three, separate int suppossible. That is unless you haspen to it upon a rowell method of approach it upon a rowell method of approaching the solution becomes alimplicipation. One million is equivalent to 13 raised to imposs the proposition of the propositi

the be written as 2° 5° of which weeks cut as a few sections of the most 15.65°. Then we arrive section of the consistence to the few sections of one million. The consistence of the proposed of the consistence of the proposed of the consistence of the consiste

lent up into a grid of sitty to guarse. Now cross out two posite corner squares, so is experiment, you might find that you? hew alterings failed. By the time that is had hed a roughe of dozen time that is had hed a roughe of dozen time — a equally funders— you might released suppose that the solution was difficult impossible, but how our time proved? a can't be proved to the control of the proved of the control of the proved of the can't be placed to the placed t

Prize
THE SELECT COMPANIES IN A SPACE
TO COMPANIES
Rules

saive it with the use of a Beatic program leveloped on your Deagon. Please die neil amel in a casarde containing the answer, ta a tiebreaker complete the following emberse in 1th world in these. "I mould like to own a 64 because..."

Your entry must entire all Chapter Chart , the the list has contained by or April. The ng squares will be both of the same in white white or black. New a 2 in , where where or black. New a 2 in . The case and or over one square of each to however it is placed, and once their the case of the case of the case white case of the case of the case in white case of the case memoring each. If the case of the case white containing any zerosource, and the case of the case of 2 is and 5, and constraining any zerosource, and the case of the case provided the case of the case of 2 is and 5, and con-shunded and the case of 2 is and 5, and con-shunded the me we thend by samply sales of 2 in the me we thend by samply sales of 2 in the me we thend by samply sales of 2 in the converged and the case where the case of the case of the case where the case of the case of the case where where the case where wher

White the service of the service of

anuary winner

E CENTRES of the discs about 1433/055 inches sport (apprexima a 13 atment, who all sands received mes from Cable Settwers, as when of Wirel, Kevin Dewender of 1014 Loblanc of France, Janice Rai also, Gordon Franch of Merchangi prior of Mikking, I Jobby of De



## St. George now has two choices!

Red or green will slay the Dragon

Fast sprung return to centre.

Graphite wiper linear potentiometers.

12 Months Guarantee. 7 day Money back Guarantee.

Complete control at your fingertips

The smooth control of the Vollomace delta spring return payaset, is more available to Diagon convers. Each popularly as to been inclived only assisted before all issues.





**Voltmace** della 3d

VOLTMACE LTD PARK DRIVE BALDOCK HERTS SG7 6ED