## 20-25 June 1985

## It's the best selling weedly

## FirstSTs snapped up by UK houses <br> ages, and the remanalng trund

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# Sir Clive steps down in Maxwell <br> ountnay es the presifoni and 



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## THEFUTUREOF MANKINDISYN YOURHANDS!



## View

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# Presents 

News $\geqslant$ Neom's problems oonhtise
Sunetlife ? Batile scurred voternat of the 2X Mucrofurs Mke Jobnation approaches bes 16th four of daty


Sothware revlews > Diggass Elrpe and Way of thas Exploding Fint
on C64 plas Pascal and AFL on OL .
Eardvart 3 Flast preview of a productoon model Clis Commnodore'e main chance

12
Star Game > End Gune - machino-oode arntegy on the Spectrum
 acreen plas how to Poino colours to the display

Ematred > Extending our euriaar daha file sitiaty addeng a Sort routme and print formatter

Commedore $64>$ Erught law - a chess grading calculaior
BBC > Morse angs - the dot/daah code tramilated hy mero


Irest of the Reat > Lotiere $6>$ Arcsis Avempe $38>$ Adventure Corver $25>$ Chart Acton $42>$ New Heleasea $43>$ Tha Week $44 \geqslant$ Pumele, Ziggarnt, Hackอะ 48

## Futures...

The Great Caserpither Race - Star Game on the Commodece E4 ... Upper and lower ouse atring harding on the Speotrum






ABC bor Livili/asing



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# Acorn's Italian 

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## 'Hackers' trial adjourned

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## Software for Atari S20 ST

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## Firebird buys Runestone

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## Sinclair yields to Maxwell <br> 4 coallanandinempape 1

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## News Desk

## Dixons cuts Plus/4 price under $£ 100$

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## Horticultural Microfair

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Doses epat at 1000 mm Thr try fot whils evess 51 30 and ELldaneqi 06

## Logo and QL win awards for Sinclair

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## Commodore digitiser from CRL

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## Decadent BT

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MrAngry $1 / 11$

## Phliosophicai

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## Best bargain

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SBanger
Finer

## Atari ．．． 2

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## Allgning kit

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MRloghle<br>nom Khe Areate<br>Iansy<br>Dovcraser

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GET THE PIDTUAE GET THE PICTUAE


[^1]GET THE PICTURE GET THE THE

## Street Lffe

# The show goes on 

Christina Erskina falks to Mike Johnston，mastermind bohwid the ZX Microfars

Coppiont shown ain an the Whols，A TMCeanary ovi．
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The 峧 Myprofur is a hope miere mitrinse．Fow suxatimon organitere mocald cuntiouplate holdirg nee show Jour lirise a your，bet char is what Nom Jotransa has be vat doing shene 1881 －－the joa zer Mancotar la nolledilims for liow monkend．

Mher Jolisitor mailagea lo exmichas
 to a ovil sermmi A boikr wribecint inturases he semen anpeatarbed by nestouss of prohbleme et Sercliar
＂Of cmarnes the Macrolazs ste depon dont ne fondar to a laspe eriond，＂Masa tand．＂When we rarma，lisclay estr－ priaed $100 \%$ of the Iribls emopeter undastay fow itrepceatrian 49 sh，bot the Misrobith mine xith goung atrong ${ }^{-}$
＂Tws cheb thenghil it would tare been u good adna to experd it to melufle aher machines，＂Wasea Hioe＂Cbrivasly oos woud wart fo on bor the phas populat mestaise，and moltode raybe Commedors，megte Anustrili／Toeshl？． Barn＇s mill letee 40 de desh，if nand be bougb it woud be s ing er ruk in torma et mony

Certahifs，the whole tuact in driven by handene to one factar，witich vainl yonduced a mow mushunis atsce tre OL and that has iold slowir（hem sapeoved＊＊

Io In Nokt Yoplring Bormaitl to thie pertable Fanden which fur Clive han proniendt
＂To be quals hansat，I wat hepug lac a parsabis whas Ese 3 peerrum foms ont
 swed at the fers＂

He coracdared the matber save mare Tablok twe loog tons perepects for com－ putiag，and hewe ownpeting，aqe very good
＇Bul r＇xatil acpashly iupeederable Por a lang lant，heme coxpulag was ween an a habby，a cravk enerom Thrs de gonta unalket sudd cally vok off kad I don＇t 0．nir enpuine．net eane Smaikir， govened Litrit wosid．
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Sadir．howasior， the Mocrction las Ead no lentr Klen－ favion Pimbinen 13 borth Landap． Whuch for wasy． bad lowoone nyman． Ywioen mion gr， Etomblers Thus weoknond the falr at to bo hatd el the Nien Hartistharal Hall gurr Yistren utision＂It wis sulur asions \＄5 pat pay paicest up，wand 1 evalamiy dide＇t wan lo par the proces op＝bs murrimm ittod statd is 65
We marned of the fan in the Cening Hall in Loados，which，is alght timet zoulec thas M1Y FiBy，ke is was by as maini \＆perminsot bores＂

Ghat ole angre does uname in that the
 She Moly foyntolk－shownet the bue stop huliway ap the hed is Ripxamirs Parle－ hus aloper boconse a nomelgss risin the $2 \pi$ Microbar as nlaie to benst sppsas－ ances ia two adrachons（firurs，kid is presecesase，Guear for Per Havr for mack）and sot ovas tom puent Sartrigen Comatief Bletrotter Show lat that

Agned that
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 ＂Dete ase wery itw exhabiven new who wece there at te begwaing Dr＇Tocalis
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 wpes，and sumahase Pubhomoes（who uley＇bs luew been there nancat trun the year tet

 Ehntarn＂

Ore whould nat bo begriled zuls Bigk
 aropadiy leow atrougit to sexagh esasghtut is lisicery Dise wis，ther ail ©is Munchinaver 2X Mionobirr

Co Lare doe＇L，mhatews yen do．
 E wes Manchener＇s leift bof der Rope came over lo Mandhesier fer＝reknoal． and 1 tuik lus melt proved m itughty greapar aitramioa．＂
Lise ary bobloy $\mathrm{E}=\mathrm{py}$ sas the rea enthuisetr vel thess who lake io like Disir peattens an a move relared hanlmon What Bike calls tha dil acon berenton the 1ist rootdars＇and tisut who nuw Ifent

t 10 to the fine groep．Une the


Msarabura appeal．
Thay ans a dursia noeser glage and the lelest seffeare＝is jerripievils for Sinelar mumos are cbin prenemed or pay－hested diese
＂Sombloepoce told ras tre hus Wirs lop mosorbles ©howa－bub ef entimants NowTl oome Corough lull and high waver 69 sen five laves fouty bol－as brie ios कौer mars＂
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They 20 a dedientwd Braeb－anoogh
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## Lost \& Found

Frugnan Rarberte Dumary Fon Frioncs 35 Miane 5 pos Trum Seppuar Mineg Gen, 44 Tre flroadway. Erochenk Flater

T
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## Extended

Pragram Q5 Furcal Paloe ints is Miera on Jeypiler Bniagomico, 75 Portinad.


Dce lo tee OL/x terhac procasoot and the ampost of wailable mimery a wide nange of hin. gravg cocaphise bave hean procuced Nridereamin parescular hus pasduped a menter of langaequs, the laleat of Wtonh in Pancal.

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 pens of Bveryaneत $A$ Wally vevos lu have bees dropped, and an telecnoa 1 thans Fm glint, to cowpleang the givie bavald be enaner-I pou cian Errive the arevde recsant Ks wet si the sabuncy isoa shers flontag mound fore sre at lenal dhes rowes ow perody aid arondin gumas fraggen, Arnalratind inewd nowad the perpone of Aher as +voc more obscion bart the simulir nomas $=$ Syamernata of Walhn
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The tingary is a $\mathrm{tall} \mathrm{cm}-$ plemeditaion of 15 DO stan derd ard so shoclat be compatitls with meresas at Preal boubd to mach zraner turspusar erowims Thers ine aloo o aember of extarmpes to the langiagt which gire curnol of the samets wid thier 0006 terpa Thase, of oevirs, wid ind ley fored on obigr couprimer

The complinc ouppoto is the chose pods fle whati wi lhat reargid whth tes mo-nme ondery bialinker Thellaberi nuy nlas be uned is merge axhonsl procoduran prodisond fy Metacomcaly Ner cal, zCLE of thaur antumhier, mols the made the The tral evcen riay then ha rach loy the iseer of the luane 'Enect or Frec W ox monabis.

The mun edrintege ol Fascal aver Bune is tim xponed at Whelh progrems rin Bpiast greutur ©ua 100 sanna Rative fian Bamene not racoanmoe.

## Difficult

Pregram linlochopper Totion
 plear Truburd, Weitingron Howe, Ippar 3 Maren's Lum, Lundin, WISHI IDL.

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5ech zorseses thuagh rang diop down lo arilr llatep lo in dines faver 2 ODOS roumen kor the moremn and Doutoy pounf manhers anp lined a 100 C- susragn. buggh the ipnad inerampe will be aboit 20 so 40 huree that of therrt
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The prokagns prige nimy anam lugh, buiteach a verildm as ent other sompater wanld cunt har mane tham the 75

Meger Thppes

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Thir ebjeathe is eimpin maough to go! you |lip tot game चravice roa collierlit Stwas frem the boton ripht of the Napoon in you belioup. Inr Divinhoppert' sod by than lo andint va ledpes as be let of fls morven of courno lo cannulsose \#hegi the radtlie of the screen as hal

Reiag Abeap tbert ani lem trild, but tas propluan ort tage whosdi sed wil dewn, the ondy ercepproe becoge ber chopper lisedf whoch Govers no Alsurnugly I movidered how be Imbe ma Mal 家 narre to gel me E
rey 6,6 Tucy Kenale

# Superstar 

Fregram Kolhadfa Kar Kate Price in to MEirre Convio－ face 64 Sapetiar Dopul Sal： wam，Osear．Horits， 4 Ceatril 5 Ireat，Nacchener Mat

Raland Bal．6e world． furnetis jodene haper－ alat，weems 10 be ga ang everfwhere－Kat amy is

You hare is goide Botiand Gurough the mane of drwarn and nimele．Ore to the trin－ zels in hlociad by a iange dook It folsnd is over gomg Toldive tos underqpoand peb evolic he wit have in fard the pioom in ose doer tond the ker
Woland hur ocoly fan gultast atio－o－msiche difn gua in pres． issil km bope 4 m Nubets nostas thint ive uider． groand．Be will ales Meve io


Fe an tribvistian and is the popeharts．hacoun hels wvec nudest an in the CE4

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## Effective

Pregum Aft Price pos 36 Ditere Of，Eupplint Miens
 twe londonsWis

TTis trpiementham of ＇AVI＇if fersduased by Soodot bened Sbcrakpl it hat a atosing backpmand in fraplamenting brabreat and melatical waci dicoob ryzters MrL w 3 ems． ous hergunge batiod ax－ plamed ly ilhatsuce．
tu＇ 1 loox Jee Feos Mar elaz ＊vister＇givet
tind jsod to kepp hin ecoetry Sevelup
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Tam Rllaney

## Eice

## TKM JETMMR <br>  <br> xif1A＜ethir？

Finslles temer？gres
It a lises（osse the oxubers meformatied logwere to the ajsient

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an poed that quata oblon ston： pty wamang of low vaciablet． Shag the viduer acd wibuas furtber wis lgping the line： hara myurel，wil show dany carsplition of 1 pro－ gramenay tank whob coedt Ee imprection to my ober tyle

Thas limplimotwatob of AOL en de $q$ in $s$ a perticalaity efloctve cme it in very har－ oaghly deponsmited．with a good minudiciory coame lor： hepomers as part of tev gus－ Eat and tularantet loe las－ ther－idernlipmant Anyuna wha kowa the a pubuder rat－ mon mhould not hure pab－ lems whit te lonnect tel． mon，por vise verial

The mindT ptoptremects give 4251 wark apace on un gtindard－machise．Tiva it pult soough is derelop a good oppulitit with ther liar

## At peace

Fevivan firs Mbepe Corr－ modore if Prion R7 PGuppt－ ne Tapelard Sobsaru，Wat legrast Nown，Uppet it Maristr lam，Ienest＇wCys sol．

Ehin was ibe lidggest maling BbeVElecaroa gurne of lige How
 Comindori 84
Our verglice eathn we diak and looled in the avomag fins of 30 ineoonde $\mathrm{T}=\mathrm{m}$ ，thar＇s
 modioes dua drive：
Onct youlvellosdast thing bool wolk the wame ar ch for Sic STile－bu bwa，jut ur oll docked ta lin bpeor utr bein Pevedoternacm las moe tery sernamasler repitne－ socves thes and you gint kizin！ late owma which cilown poo io asggin behrien chas cad nomanibe aiorane，to dalinut to Gorranapder Jerrivice．
Tradting and ugulppien 0is shipu ujut suin one D3C Stis an indend tus hoat ouser



Owo Jeneched，however， pot nosen en untedials ais－ larnece
glangry meluseshar Welt，four sai ours oe the wasen sireens： asd eghr oe the daplays Ev－ erriblag is to he mach elrsiner
The lan juraplage in ato pear to be ni申ter niower thah
goege lot with iate of star． il besomen preily unalal Micrsdrives poownd conk－ platsly adaquiln for alarige， Wagagh diap would aboem trimoler 10 ethas maclunes， bul prognana can be Mipodipd tran mernal kike
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The cunblrasion of 4 moch moes oboppelharnite vivion de ARL that cas be wanea for any CP／青 Nywam （B0aOwib0cot wud the graph－ tes rempionen of be 04 rmike Be combunsion s mot wheh b－lore lies wrudd have zant pasmer 45090 be at ternulsen manirg mitye

Doanall Ilecben


की the Mic whan 岩ere are a large mamber of abjach it ncrava－yat whe datso＂I Sisni＇l that many，herire bousd to be Thaspods，is wieds cow pra＇ra poobably Atsod aicesty
Thace tre Mecioct exTr lenches Opa new oomanand nown yos ionas $0 d$ sue fines plode wecth pelar uen ocpe ot plenslt－that aperds the guens inp Anchas ophorat． inwa pra io hane roine play my－low ahly if gro hurw e dockong compaler

Tha dockang complater，br
 effermices iboal Cht E2w－ on lae Bac，otot yoi wem witus najpe of cie spece eltr for ardiwg yoar larges world，all yod hed in do was prese C ane Zomes por lousd yournsil aidely docind．Wion Dye Courunadsee．proser Cond to enab ploc ulan over try good bat very，wery alow

Yoe an grese of the mo－ nath ywe entogy tron be vesis of hiperippost wheth misne that the cocupuan blase oyert platnbery op groach and evirythaty of onown，you wcelder＇be ou－ fread to go to elvinh，or makin a cup ofopthe－Das compuler
 Man oner figtting tu well．

Horid youleal as peess wih Le iuntrone thite he the C $\mathrm{k}=\mathrm{F}$ ，lask bock and wiod tpion po by oo its triunt of ©se Bae Drmise

Manis Cren


## Yieceee！

Progragn The Wig of the Ex plodung Fils Prilet 58 ． 63 BEI： po Coetmodve 44 Finplier Malhonme Houre．Cayle Tard，Ejehmond FWipary

MJilbrama Algann＇s Lheal tinluane a biockenant in $=8$ sesses ol the werd ount turs a lock an ith pickuging etrwate ［you（on7

I iupposen Het bekt ward bor if woibd be a apora eneste－ biva－bua be opect is harati Tou have to control poat ins－
 fial the grotite fou nel aso very delinteit masculnd．Im atradi，arien 19 talhe call his appoinent
floa bave a wids chetoe of bichss－you cke opt for som－ pla bela and prunches，pr yos cha ly treleas mover like disp ioden，roundtranes or awsepe Yed bian move Ior－ eavat or tackerentis，or inri－ swails ie is ibir dirwetion．

Te game own be played

## Can it，Janet

Projram She Rocly Hoarar Show Prtee ch 95 Miove
 Croap FiCh CRL Jhome il King Yure，Cepporn： Saat，Londsiestsinib

Wtheprat Well man on evef to theficm－ kanatein
place whase the Master will surp you of yout inlilkisons and probibly your Elghthe at whil Yes，Eas us mode Frathes Coues to HeJ dies Hellywod nod ben t yout mid thencouts lien gosmalres．Bead and jo． Net，pooid wampe？Vaionally


Athas urn or Pro plyyer if see purpac tive the cormput et bentrous paint appreath of two ploper，juis mid a friend one ialaly leat sach othera＇ bravas aut

The scoung ax a lat cterfur mg ol fint，bui you noon qei wed is it Butically，there sor tre eoparas mpalema Jo vnl a boot agxiat the corapelec， Fow Mend is gec hes compinie fin juag apmbols＝por get a hal conde if you extcaly a mam perincily，but ouly a haly af pan don＇s get it coll pirinty right Yen are really

## betag murked tor iffls

Tos Also wuse poial－ rioging from 1.000 foe + gor－ feorif trovoled dropinele or roundtoose so amere S00 for safrlisia paighal paich

Tos atoo get exir peanu depentring oo how lany it kook joa ts best your compen－ onupd opponent－you have tern inul of 39 mornsh，and Joe swery athophs rimwning at the frale at a hoat roie 4csor 100 prome（keruring poe wes）
Is the fre ploper plac，yous

for yeu Frask IV Farior has sursad ora of Ton io sison with las Koudans riv，an paer epposite ammber wil hans is reaseimble the Dr－Nadians butu ef wlieh ans icathend． crocod the ercentril pele hat nothag is mins $x$ Liverna and
 nogly ilioguluod ipacotap aboat la blast ofl bave．bo the planet Trumexial to tho Oul． ary of Trinegtraris．nad yoos wpuldert witt la be will on tract whan it dod tori，woild Yy

The mannest wo wocrane Fuprofachoe of lie timio wrs and it in mhmisain femm biond bucepod Zacky lo lok
 body－bualldua＇，are senly
reoogriakle and beharn it characivr．evea spothutg Apeethwe every Rochylion Nil lmpor ly hest whitn some pooplo have coosplatyell Am： क力 gure u urplignble uning由he koyburnd ifornd tenjor： able mand addictives，thex．gh perlawe toc quekly wived
Thin audaties parthapelion

## Budget chaos

Prograen Dor＇子 Parac Pries E2．A5 Mies Specture LfE Svepliter Furabugd Seflware， Wallagnon Hoana，Uppar 8 Marn＇s Sins，bobdor WCaH M5b

TTre mital Toloneses trom VIrnbied mpopsted thet lisprau Prus nasd osk arsen Hactly Prograpmed． chail－tapper Mootk for zir
 Dow＇Fatie sche of $1 \mathbf{1 6}$ is hadlly reswernnip
Hesche tis piot stranded sab bat of thois strunge ar－ sede grook plesers，cporape． lag of scar jevels likind ly Mos，per leve bo lowd e etrgod of what look Ise tindill + loys sio your qpetechip Problem． sunther cest－libe leye ote radicactire no hare to be

Bere fats 30 wacond boase zed the pareon with the buph ant acear at tue fad wnis Thurv ers an liones polpis

In ab orn pleyar garne． Dewava，poa Egta pro beeta of wash leval st atcII－pos sojpor lowey a nomse，then grogreas eg luseugh the IIrr－ cis er dane Each wilcoeedreg enmy it hudey wo leat Bu navele wal be able to ass a wider range of anmoterives

The groplecs aje jut nighe －paer charamer reagoods wert wes to en joyrtick． boaneing sbol the straves lien Iraon lee hiramet，Toe soind a greas，ros－bat wrabth but for the londing sorwam aes His dac verhast！

MII la sil，idfhetive－asd jout iown find pocran？ whemarg to pout an acrasm died tqu is locked in the 4evth or pascind in the grish bo faet，thes aboat fire muniles glay．youll pable bly begm doibling up it errypatir dodplog

Marlia Conf

## ecterte

of Aloctr Phorrer enlsats is Elradat Kyp wha trar pro－ gram Shay can tway the why－ fitis atip at bocominy part of The botom Poos alsik os Sive if pliypod wall weinag enookisgo usd a enernall

Telus Melasen

blarma whe a decoatweirs． Inn ga that alon propels there ismarto the sedge of a ahat mad inds the wip＇s held Slecens probiem－a maider－ py alun whey both wewincl． bisedahor peraut

Fleyl zeschnos wase that thax game is be dat an te plunern hindscapa，bot sol Forther pliyurg awnation ambelies Whil you tan al－ cona／descoad ary mimber of levile the ellive．oun enly move siatma，bui as lifanot inways on screen you howe is cart－ thily yodge phess in is and fore if awsy from whape you wast to be he stdinet 鍺e zockar anowode ooe platform Eta tina dxreng fling．so the lower lewis have to le clesped fret herrover incan． vorista．Mrepla bot dernces fas

Jelan Mtssens



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## Hardware

# Jack of all trades 

## Jeff Meylor praviews Commodora's new C- 130K hwanprocassor machune wid inds if fess unweidy than expected

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## The hardware

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## Hardware

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## Priet and avallablity

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## Conclation

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## Star Game

# Endgame 

## A anphislicaisd machine coclo stralegy game for lio Ipectrunt from M Towown

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## Coded message

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## BEC \& Electron



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## All sorted out

## A Halsall presents moditicaliong to Peter Pation's Data File program to give it a sort routhe and pont formatier

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## Commodore 64

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## Amstrad



## Comamhdnre 64



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Readers' Chart No 28

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## Now voting on week $30-\$ 25$ to win

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## IN TUNE

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## New Releases

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## Ihis Week



## New Releases


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## The Hackers



## ELITE GOES GOLD ON THE 64



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