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The Amstrad CPC464 computer system comes complete with its own colour monitor or green screen VDU plus an in-built, fast loading data recorder. Yet it costs around the same price as a comparable micro computer without monitor or data recorder.

The advantage is two fold. Your home comne advantage is two four. Four noise com-puter operates independently of your televi-sion set, so both can be used simultaneously. And the money you save on hardware costs will provide an extensive array of software and accessories.

The Amstrad system is unique, and offers greater convenience and far greater economy than any comparable systems.



Complete, ready-to-go system.

The Amstrad CPC464 is a complete personal The Amstrad CFC404 is a complete personal computer system that's ready to go the mo-ment you plug it in. You get a powerful com-puter with a full colour typewriter style keyboard that's a breeze to use. Plus you get a full colour monitor and in-built cassette data recorder for around the same price as

data recorder for around the same price as most computer keyboards. Amstrad offers 64k of RAM (42K available), 32K of ROM and a very fast, extended BASIC. Dollar for dollar no other system adds up to Amstrad. That's why it's fast becoming Europe's number one choice in personal computers.

12 MONTHS GUARANTEE

Software for home and business.

....

Amstrad software features some of the most call and some even devised for the home computer, plus many wanted business and financial programs. All are designed to max-imise the CPC464's impressive graphics, sound and processing capabilities.

Amstrad high resolution graphics (640x200) pixels coupled with the precision of the Amstrad colour monitor make for visibly superior screen images which, in turn, ding. Feed Amstrad's 3 voice, 7 octave stereo output through your hi-fi amplifier and you'll match brilliant pictures with equally brilliant sound

At home or in business, Amstrad's speed At home or in business, Amstrad's speed loading facility means even the most com-plex programs can be loaded without undue delay. And for business use, features such as numeric keypad, copy cursor facility, 32 user defined keys and a high definition green screen VDU-set Amstrad apart.



Games? Try your skill.

Amstrad high performance video games will have you on the edge of your seat with exent. Choose from a range that includes citen



3D adventure games, classics like Chess and Xanagrams, childrens' fun and educational progams and sci-fi fantasies. The substantial RAM in the Amstrad CPC464

computer means software authors have extra scope to develop games and ideas that lesser computers do not have the capability for.



Unlimited scope for expansion

At Amstrad, we look to the future. With a At Amstrad, we look to the future. With a centronics compatible parallel printer inter-face and joystick port. Plus inexpensive add-ons like the DMPI 80 column dot matrix printer and CP/M* and LOGO disk drive (available shortly). You get 12 months unconditional guarantee

on the computer, monitor, printer and disk drive.



Add up the built-in features and low cost extras and you'll decide on Amstrad. (Extentras and you'n decide on Amstrau, poxten-sive range of Software for small business applications.) Distributed and guaranteed throughout Australia by AWA-Thorn, available from leading electrical stores and computer retailers.

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SUNDAY TIMES MAGAZINE, DECEMBER 2, 1984

M 43

Instead Of Saving For Your Kids Education



Maybe You Should Be Spending For It.

At last, the world's number one selling computer in a pack. The Commodore 64 now available in a family pack at a very affordable family price, \$700 value for just \$499. You get the powerful Commodore 64, plus datacassette and joystick, four software programs: Money Manager, An Arcade Game, Rolf, Harris Picture Builder and Introduction To Basic(ca leach yourself program). A great gift for the whole family who work and play together.



Keeping up with you.

of one could a right

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3MSCC320

. M 17

Computers 3

released a micro floppy-disk drive em for the Sega SUS home computer.

It is claimed to be first internatio standard three-inch disk drive for the Aus-tralian home com-puter market and is part of the John Sands Sega SF7000 Super Control Sta-tion.

tion. The SF700, from Sega Enterprises of Japan, rounds out the total home computing package marketed in Australia by John-mast has ega sc2000H Personal Computer re-leased last month. The "Super Control Station" competent Station" competent fexibility in choosing optional extras to com-

optional ex

home computer. As well as being a disk drive it als , it also gives the

of basic programming, total 80k random access memory and both semory and both semory and both semory content of the provide the second ported by Sega in this super Controller, Buy National Panasonic. This single-aided high-speed drive gives provide the second programs and data guickly and sort them duikty way core the duikty way core the duikty and sort them duikt

High speed

Any Sega user who al-ready has programs on cassette tape can trans-fer most of these cassette tape can trans-fer most of these quickly and easily onto disk.

y in choosing disk. extras to com-the .Sega disk drive operates 40 times faster than most tape systems. This bega This high-speed effi-clency is the principal advantage of this disk





system over a cassette storage system. Programs can be found and loaded in se-conds instead of found ar conds minutes.

By way of comparison with other disk systems, John Sands Electronics claims the SF7000 disk-drive gives the user an even higher speed than the old 525in floppy disks. The Super Control Station operates at a baud rate of 250k bits per second.

per second. The SF7000 expands the memory of the Sega computer to 80K, but then takes all but 19k of this memory to operate the disk drive, the high resolution graphics and basic interpreter. So what it gives with

So what it gives with ne hand it takes with one h the other.

the other. The Disk Operating System and the SF7000's enhanced basic language allow the Sega user to store more programs and files, which can be either sequential (one after the other) or ran-dom access m access

The advantage of random access is the user can quickly read

eteret & E fuper Control SI John Sands Sega Super Control Station - a comp any section of the file at will.

will. To make programm-ing easier, the designers incorporated basic com-mands such as DSRIS and DSKO\$ to access the disk by track and sector, and also-such commands as LOADM, SAVEM and VERIFYM to store files.

1 Super Control Station — e c The Sersa Super Con-trol Station gives ideal high-speed computing for dealing with such material as files of names and addresses, dike wire cellars or stamp collections, spreadsheets and tasks like writing letters, re-ports and casays, now ally as word processing. Disk-based sofware for applications such as word processing, base is currently being produced by Mitec – the designers of Sega

lete system

disk basic and due for release in Australia this year. The John Sands Sega SF7000 Super Control Station is available in leading retail stores in Australia for a recom-mended retail price of \$599.

"We believe this unit, "We believe this unit, together with the popu-lar Sega SC3000H Per-sonal Computer, makes up the finest home com-puting package curren-ly available for under \$1000 on the Australian market," said a John Sands Sega spokesman.

nouncement follows the success of an interna-tional Apple university

Visionhire. David Hall, managing director of Visionhire Australia said: "Weve been thinking about the home computer market for some time. "Well accepted and even preferred method of getting tel-evisions and video re-corders." "Date of the second corder as well?" Date of the second corder as well?" Rental Rental Now available for rental are the Com-modore 64 and Vie 20 home computers. We chose the Vie 20 and Commodore 64 for obvious reasons – their established pop-ularity in the mulket ange of software available," said David Hall.

Hall. Western Australians can now rent a Vic 20 or Commodore 64 for up to six months or just overnight. "As with all Visionhire rental products, our computers are suppor-ted by a full service back-up," Mr Hall said.

Rentals market

moves

on new

THOSE unable to de-cide which home computer to buy this Christmas and those who want to take one "for a test drive" be-

for a test drive be-fore buying may get help from a new rental scheme from Visionhire.

field

back-up, mr nam said. "If there are any tech-nical problems our servicemen will repair it within 24 hours or provide a replacement unit if it has to be taken back to the shop.

Appealing

Appealing "Already the idea is enormously appealing to many people. "One major advantage to the ist gives a chance to fore deciding to buy." Many families have been thinking of get-ting a comparison of the cause of their lack of understanding about new technology." The chance to hnow the computer first-hand and decide which would best suit them." Chase de alter the rental period.

ne:

WA education institutions in APPLE Computers Australia will donate \$9 million of computers to terinstitutions

including and UWA.

They will get the in-novative Macintosh and Lisa equipment.

Consortium Consortium The Apple announce-ment is a further move in establishing an inter-sities consortium, which is already strongly esta-blished in the United States, Canada and New Zealand.

Apple Computer Aus-tralia expects that \$9 million worth of Lisa and Macintosh will be supplied over the three vears

C* commodore

1

1.10

ware Developer eligible for further company

support. Regular contact and ideas will be exchanged between local and inter-national members.

Members of the Aus-Members of the Aus-tralian consortium can re-sell the Apple equip-ment to full-time stu-dents and faculty or ad-ministrative staff.

tional Apple university consortium program. Some 50,000 equip-ment installations were expected in the initial US program, which in-cluded such prominent institutions as Yale. Stanford, Brown and the University of Michi-ere.

Saving

Saving Typically a last apple allower will be available on camputes for about \$2000 o a sav-ing of about \$2000 on a sav-ing of about \$2000 on the current Australian control about \$2000 on versity Computer Cen-versity Cenversity Cenversity

flown into land

the University of Michi-gan - with, each ex-pected to sell \$2 million worth of Apple products over three years. In May, seven New Zealand universities made that county's largest-ever single pur-chase of micro com-puter equipment under the universities consor-tium program.

Several hundred Ma-cintosh and Lisa com-puters worth about \$NZ1.5 million, were flown into New Zea-Is Christmas on your



SUNDAY TIMES MAGAZINE; DECEMBER 9, 1984

M 18



international scheme

Students and staff will use the computers for research, curricu-lum development, teaching and some com-mercial activities.

Uses

The SF7000's disk basic allows the home programmer to produce a printout or hardcopy of the screen using a dot matrix printer.

Other computer suppliers such as Micro-soft, Imagineering and Compumusic will sup-port the scheme.





PKB COM620

The new Commodore 16 has arrived. From the world's most popular name in personal computers. While it's no toy, it's a lot of fun. While it's highly advanced, it makes the ideal first time computer.

It's just \$249. And that's the cheapest way we know to give your kid something you've always wanted yourself. A better brain.

Commodore COMPUTER Fun, games and brains.

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C= commodore =

Keeping up with you.

Contact your nearest Commodore dealer or Commodore Business Machines: Sydney; (02) 427 4888 Melbourne: (03) 429 9855 Brisbane: (07) 393 0745 Perth: (09) 478 1744

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THE SUNDAY TIMES, DEC. 11, 1983 31

Only an Atari Supercomputer Can give you Can give you Can this Constant Constant

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For example, the new . bompatible games from B which are double ended il 16K. They use a pay stem to enable 16K gam in on the 4K cartridge. from K-Tel which

game is effectively up into 4K blocks and section of the game fin-

it this super staff path pushes Atari ter versatility. It is mory capacity of the e centre by 49 tim manufacturers of the and to this can be of a cassette deck. the A

cor cartridges it's cheap nables the cor-e what it cal which is like o to a 45. Multi Load ga-per of segments hat

game ti Atari a K-Tel

back

puters. sta nireada

"With six stores al-ready operating in major opening in the New Year to make us the strongest electronic reall chain in your trading in a dif-ferent sphere." "Tundy is a special reality categories and tailer categories for en-thusists and business-men. We will cater for bobbys phome com-puters. But in the last few

to lift its game age to electronics. Besidos game centres now has all the add-i components to con-rit these game centres computers, and also ocks a range of home imputers including computers in Atari, Commodor clair and Sega cludin c. Sit "Enthusiasts already see us as one-stop shop for everything to do with game centres and add-on to games centres. We plan to strengthen our computer identity off the back of this, still emphasising the fun side rather than the business side of home computers."

Stewart Nichol-the Backgammon ys Stewart Nichol-of the Backgammon p: "We still carry famous backgammon es and chess sets made us famous in h. But we have ed into the new ronic era of game ing with a vensets us in have new



When's a game centre not a game centre — when it becomes the control centre for a range of add-ons like a computer keyboard, and a musical keyboard as in this Intellivision game



116 Cambridge St., West Leederville Telephone 381 2070, 381 4398 44 THE SUNDAY TIMES MAGAZINE, DECEMBER 11, 1983

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d CD play

ontainer has a new Kenwood ayer that has rol and yet will

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e now have up to size rent models available some audio retailer offer any, and most offer

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CD player not uality, but aest redicts that the nd quality, is predicts campaign Kenwood d CD at CD a b

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It's the personal computer that outpowers, outfunctions, outcomputes, outcolours everthing in its class – in a word outstanding!

Introducing the SEGA COMPUTER

In a work outstantung: The John Sand SEG SC2000. OLTSTANDING in terms of power (22R ROM and 22R RAM – capandaheto 16M JA, OLTSTANDING in terms of capandaheto 16M JA, OLTSTANDING in terms of multit and 5 × 7 character do matrix). OUTSTANDING in terms of observed is separate colours and 22S colour heasy. OUTSTANDING in terms of its capacity to interface with its wide range of periphenia and OUTSTANDING IN TERMS OF EASE OF USE AND VALUE, 5235



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THE SUNDAY TIMES MAGAZINE, DECEMBER 11, 1983 •45

GARDEN CITY



keyboard

possible

to supply the

and circuit make it

Commodore Computers when comparing the same of the goes walkabout

Redesigned

He should be around now with the launch of he portable Commodore 4, the first ever built-n color computer. This Osborne-like por-able system gives the 64 n identity crisis.

An identity crisis. How could what has become the most suc-cessful home compute-in the world in les-than a year, taking we over 40 per cent of th-computer market worl-wide, be a nightmare? Mr Davis, court

wide, be a nightmare? Mr Davis says it is no good it bridges the sap between a home computer and business omputer and business mell in the home com-left in the home com-uler market with its skop powerful enough to be used as a business machine.

If Commodore pro-matchine. If Commodore pro-moted it to the business-man then they would doe out in the Loome-computer market where on the biggest number of tales are, and if they promoted it as a home computer for children, untimessmen would look on it.

As it happened Com-iodore didn't have to oury about any sort of romotion for it. The only sort of night-

Commodore's new portable Commodor with its built-in color monitor and disc d 64

Nigel Headlam, of Bruining Headlam, the commodore business omputer specialists, aid the machine had een rebuilt completely o enable it to fit into uch a tight space.

ins to get straight stoke commoders dataset were commoders dataset were commoders dataset were been and the state of the method of the state of the particular to the state of the state o not just a Com-e 64 shoved into a he said. "They built a new key-and redesigned the

hem into the small con-tainer along with s TV monitor, and disc drive. monitor, and disc drive." The monitor is a high quality unit that is fed by a direct video signal and is clean and sharp. Despite the smaller of the screen (about 10 cm) you can read the text quile easily when using it as a word prohe colors of both ground and text

with it hen at he office I all -0

d processis The pro-be loads gh the car or the di

and will run column busi mie who w

64 mpu

ice having it all unit for carting



Nigel Headlam, of Braining Headlam, with the portable Commod

Prices fall as festive rush looms

ndy has redu ed dramatically the prices of much of its computer hardware for the Christmas rush.

The reductions cover everything from the popular home Color computer home through to the 16bit upmarket personal computer.

For example, the very popular 8K ver-sion of the Color home computer has been dropped from \$449 to dropp

Likewise the 16K extended Color com-puter is down \$100 to \$409, and the 32K version is down from \$799 to \$599.

The new Model 100 ortable that caused minor sensation then it was released wo months ago has months ago has wen dropped from 1099 to \$559, and the MK version is down orm \$1390 to \$109.

Tandy

moves in on

market

At this price the Model 160 will sain an wen bleger followge than before. It is uni-que in that it carries on board enough memory for word pro-cessing, a daily ache-dule for the man who likes to plan out his day, and a list of names and addresses.

So you can go away on a trip with all the appointments pro-grammed into the

certainly a winner and more so at this In

e busin. of the have been d by several ed and ofter ds of dollars 16, con driv

The Model 16, com-plete with disc drive, is down from \$8409 to \$6699, and the 16K Model 4 is down from \$1799 to \$1409.

in the market place. Prices have failen dramatically on most months and Tendy was becoming non-competitive. It was relying on its strong service back up and notiware and hard-ware support to win iales away from the competition.

In one swoop Tandy is now more competi-tive pricewise and still has the excellent sup-port system to offer



names and addresses of people you plan to contact while you are

You can also write your reports ready for printing when you get back.

Model 100 la

\$1799 to \$1409. Although there is no official reason given for the reduc-tion it is being seen in the industry as a more by Tandy to be-come more aggressive in the market place.

But even with one of the most successful and strongest support systems for personal computers in the market there is only so much one can ex-pect the consumer to pay.



Electronics 5 10,000 Sega computers ready for initial launch

s the tradition As the iraditional board games market slumps the king of the board games, John Sands, has moved strongly into the home computer market with the launch of the Seca.

nch of the Sega. we of the biggest stions on a con-ter's mind when buy the source of the source the source of the around three or sky the after they buy? Which is being stand the tronkes industry s along, one of the heat things to have redibility.

hes implest solution be simplest solution buy one of the well win brands like Com-lore. Tandy. Apple of of the other well watems even systems there i

scause of this syn ac it is very difficul

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COTHER MODELS The DR-1108 kernwood CD was selected at attractive selected at a districtule selection of the selection of the analysis of the most popular audo magazines in about, most accurate baccase of its optimum serve cond, why two with the Kanesed CD as the most accurate baccase of its optimum serve cond, why two that has many server and a server and the server and the server of the server and the server and the server condition of the server and the server server as a server and the server most accurate baccase of its optimum server (2003 or 11 kb), estimate Accurate here are server as a server and the server server as a server as a server as a server server as a a server as a server as

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to get the act toare the first coun-o see the machine le Japan. It was re-

Board games king moves

to electronics

ion is K who sper ting with thows his

he h

The Sega appears to Although the selection of cartridges is small for the launch, it should

the launch, it should have no problems in getting software because Sega owns the rights to most of the leading games. They buy and develop them for their arcade machines and ir the past have sold many of them to Coleco.

Credibility

ow, says a spokes-a for John Sands, games will be pro-ind for the Sega as as sold to compan-like Coleco. the second solution of the second solution of

the initial launch d John Sands keep the press ds plans

lidays. The machines are sold Perth through Myer. in Perth through Myer, Boans, and the Back-gammon chain of shops. Mr Michael McCleland. r Michael McCleland s and marketing ager for John Sand tronics, says tha specialist compute lifer is too limited a or outlets. He say, the home compute

ar computer

specialists were import-ant because a lot of people were wanting to ask a lot of questions before they bought," he

en't looking for ans-ers any more. They ork all that out when hey get home.

get home. The industry still is the specialist re-r but as the markel nds then it will be department stores will handle it," he

The Sega retails for round \$300 and Keiti arshall maintains tha is the best value for oney under \$500.

"It is a true home en-tertainment centre that will provide hours of en-joyment and education for the whole family."

John Sands' entry into the electronic entertainment market, the Sega computer -- ideal for beginners.

VIDEO GAME REVIEWS ---zisoft mosquitoes

a finner

MOSQUITOES_ ommodore VIC-20 om Ozisoft (disap-inting).

lack bite You are trapp ithin the lost of MOS which ar by vicious kil itoes. Luckily, ed with a can of ily fly spray to help The program comes on cassette packaged in a see-through wrapping with a fancy picture de-picting a battle scene.

You must get the key nd evade the mosqui-ies and escape through the locked door to go on the next level where

The game comes in reversal stages which are: instructions, level of dif-ficulty, redefining char-acters and the game. The sound effects are very realistic from the bullets firing to the splat as a paratrooper hits the ground.

When they hit the round the body ex-lodes and sounds like a bag of wet cement litting the ground.

when a paratrooper lands on your anti-aircraft gun. One minor gripe is that once you have started the game you cannot change the leve of difficulty.



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MM WHAT A GREAT WAS 1499 **CHRISTMAS IDEA** NOW % PRICE THE TI 99/4A HOME COMPUTER is Home Computer uses a combinatic hardware and software to create new mensions in learning and tertainment. It can be your tutor, hviser and tool.

Shop 4 Cloisters Square Perth 6000 42 THE SUNDAY JIMES MAGAZINE, DECEMBER 18, 1983

wait you. But there is an added inger, the lights on the txt level may have iled and you have to el your way around te maze of passages. inface of passages. Unfortunately, I found is game rather disap-inting. It didn't react joysilek control well ough and so made the me difficult to play. Defined

Perined
The graphics, which were made up from re-defined characters, were reasonable but not as exciting as they could have been. For an example, the maguitos were represented by five dots were the moguito would have added to the enjoyment.

The sound was also

a mosquito what it has the constant buzzing a mosquito which gets your nerves after i lie. Intermitten izzing, or varying le is of buzzing would ye made it more bear-

ntually I turned The is that nsive and

toes is not o ft's best, but in the standa is cheap.-M

ndard

PARATROOPA (19.95) for the Com-modore VIC-20 by Ozisoft.

You are the las ti-aircrast ur job to de les and grou naining gu for france into your area itop barrage. me uses high graphics a effined char-very aratroopers gan

as a paramoper nits the ground. The graphics are the best feature of the game, errs failing from the heli-copters. They are very small but quite detailed. Their arms and legs wiggle around until their parachile opens. Bibl full of holes they continue to wiggle and plummet to the ground.



The helicopters look very authentic and are made of different colors (not easy on the VIC).

The game recognises elicopters colliding and utomatically destroys hem for you.

Vom anti-al

Electronics 6

Industry pulse on new market

□ By Christmas the industry an-ticipates that over 120,000 home computers will have found their way into our homes this year. □ It will have turned over be-tween \$75-\$110 million.

Next year the figures are ex-pected to double as the computer has. craze gains momentum and will So far it is do grow at the rais of 60 per cent So far it is do you will be rais of 160 per cent So far it is do

a lot

down the years? And if they do take to it will it so take up their time that they will ignore homework and household chores?

machine should one buy? Interpolation of the should be about my son who spent so much time in front of a com-puter he had forgot-ten how to speak to human beings, and his school work in every English which he needed for computing, suffered.

A fellow drinker said: "I know exactly what you mean. A mate of mine has a son your son's age and he has similar prob-lems. The boy is out

suffered.

finally what And

Q Rs

for their opportunity to test first. in fe

leap in feet first. While the industry looks to it for each flow and increased manu-facturing, the parents look to it to help their children become bei-ter educated and more employable. But the anomaly about home

ires, or even the par-ging on the whims and decisions of the kids. Hardly any of the ma or the parents understar hell it's all about and a clue where to start. The industry is driv who enthusiastically ami

Introducing the

5ega

enting budgets to and ma enting in research and ma foring do so hanging on isn of children. There is only one thing we sure about as we wan ough the world of bits and by we will all eventually have our homes because we have

10

SEGA COMPUTER

It's the personal computer that outpowers, outfunctions, outcomputes, outcolours everthing in its class – in a word outstanding! The John Sands SEGA SC 3000. OUTSTANDING The John Sands SEGA SC3000. OUTSTANDING in terms of power (23K ROM and 23K RAM-expandable to 48K). OUTSTANDING in terms of high resolution displey (25K v12K do tercen matrix and 5x 7 character dot matrix). OUTSTANDING in terms of closer (16 separate colours and 22S colour hues). OUTSTANDING in terms of lit capacity to interface with a wole range of peripherals and OUTSTANDING IN TEXNS OF EASE OF USE AND VALUE, 5229.

BACKGAMMON SHOP

Computers worth the outlay Children can gain One of the hottest One of the hottest products on every parent's Christmas list this year is a home computer.

all hours of the night chasing girls and drinking beer and his school work is suffer-ing."

Ing." He was making a point. Our son grew out of the computer drug syndrome in his own good time and his TAE looming on the horizon made him witch his attention back to school work. He rationed the

He rationed the computer time to weekends only.

And so what if you take a gamble and buy a computer and it ultimately ends in the

we bought our son expensive electric train sets, and Scalex-tric car racing sets which are now buried in the attic rotting

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WORLD LEADERS IN TECHNOLOGY

at your home computer to grow into a valuable tool which or erious purposes as well as games . . . OR . . .

OFFICE UPDATE 158 ADELAIDE TERRACE, PERTH (09) 325 3499 AUTHORISED HITACHI DISTRIBUTORS of the stream of Bitchild Parame Canaditation and previously or the state alternative terrational considers and previously or at the difference before point committee that a statement to be able utilitation before you commit yourself We stay in too not committee with will be hange to be value of the value of a

OUR COMPUTERS ARE NOT FOR EVERYONE ! Sure our computers are brilliant at games, but they are computers nor glorified games machines. So if that's what you needn't come to see us - visit your nearest "computer instead... BUT...

on't waste moncy on a toy ... come and see us about a real 228 the difference between Hilachi Personal Computers and its or computers on the market, LEARN about the power of the processor, the heart of the Hilachi MJ86300 computer.

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Other parents bought these items for their sons, urged on by the child that they would treasure it for ever, only to find the same thing happened.

Yet other children became so involved in train sets they joined model train societies and slot car racing clubs.

With children you win some and lose some. Ours became good at golf, but money spent on tennis coaching was a waste. That's the price you pay for helping kids.

But computers are going to feature. In every child's work life. They may not become a computer program. er progri 8 0 er,

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And the better they are using it, the bet-ter they will be in their business.

Mant to spend. Basic computers are available from under \$100 these days, such as the Sinclair. These are only black and white and so have a limited appeal. But there is less heartache if they finish up in a curboard.

Eupboard. But the more popu-lar computers, around the \$100 to \$500 usually have color, sound and a much wider range of games as well a programs, and frankly are still worth the risk of in-vestment.

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