Technics showed the prototype of the world's first cassette PFM deck at the Tokyo Electronic Show. Production is due to start in April in Japan and the initial production will be 100 units a month.

Roller disco coming

If Chris Sennas (Douglas Hi-Fi) looks as if he is going around in circles these days, it is with good reason. He is halfway through building the most luxurious roller-skating disco underway in the Murray St Mall.

Clinging to 50,000 dollars in discs, including a 15,000 dollar slate Rink with a central 55 metre oval and four bowls, a bar, a refreshment bar, roller skate hire, and space invaders machines built into the ceiling, and thousands of lights will flood the pillars and walls.

Carpets above shoulder height will give the skaters passing some shade and keep them cool. The roller disco will create a special atmosphere, although the risk is becoming apparent.

Chris and his partner Jim Little have released more than 30 million dollars in roller disco and it will be interesting to see if it takes off.

The roller skate craze is rampant in the world and has been seen in a majority group interest so far.

The roller disco will be open in three weeks with a large champagne function with clans and jet setters.

New ear gear

Introducing the Celadon D-30, one of the best British speakers in appearance. Excellent. A specially designed, high-powered amplifier that provides very fine definition, a smooth sound when music is played, and has the ability to reproduce even the most subtle nuances of music. In addition, it is very life-like.

Agents for AVL

Multivision have been appointed WA agents for AVL. They will take over the sales and servicing of the existing dealers for these items and will provide a complete range of service and assistance to the dealers. Multivision are experienced in this field and have a reputation for providing excellent service.

Audio Visual Business in Lennox will now be the new distributor for AVL and will provide a comprehensive range of audio visual equipment. They have been appointed by the Australian distributors to handle sales and service.

Sharp Corporation's talking electronic cash register

Smart talk from cash register

Forget the check-out chick at the local supermarket. She won't be saying "good day", the cash register will.

Sharp has just released a world's first talking cash register.

30th Anniversary of Kenwood

Celebrating 30 years, Kenwood is more than just a name—its the embodiment of a legacy of precision and excellence. Kenwood has been a trusted name in the Japanese audio industry since 1946, and their commitment to innovation and quality has remained unwavering throughout the years.

Unbeatable value from Alberts hi-fi

Save over $100 on Kenwood!

This is without doubt the best sounding system we have ever auditioned for under $500. The latest Kenwood release, and semi automatic black turntable and the new KA 300 amplifier, matched a pair of fully imported Kenwood two-way speakers. These speakers, together with the excellent finish on an 8" bass driver — to give plenty of life to your records, whatever the occasion. Complete with matching AM/FM stereo tuner.

For more information call 1779 Donne St, 300 7674

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Douglas hi-fi

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THE SUNDAY TIMES MAGAZINE, NOVEMBER 30, 1990
New turkey stuffing

To help the harried cook with Christmas meals, Pat O'Day from Toshiba has come up with a couple of useful microwave hints and tips.

If you have a new turkey, make sure it is fully defrosted before putting it in the microwave. Pat advises taking it out of the refrigerator and letting it stand for 2 to 3 hours at room temperature before cooking.

She also suggests a new idea to keep the stuffing from burning during the cooking process. Pat recommends using a basting bag filled with broth or wine to keep the stuffing moist and flavorful.

As an added bonus, Pat's turkey stuffing recipe can also be used for making a turkey casserole. Simply mix the stuffing with cooked turkey and vegetables, and bake in the oven for a delicious and satisfying meal.

...and Di's idea for a yummy Christmas

And here's an idea for a simple Christmas pudding. All you need is a can of spiced rum and a can of chocolate pudding mix. Cover the pudding mix with rum and let it sit for 24 hours. Then pour it into a casserole dish and bake for 30 minutes. Top with whipped cream and enjoy a delicious and easy Christmas dessert.

There's only one thing to do with temptation.

SYSTEM COMPLETE $1800

Words are not enough. To appreciate the splendor of the Optonica 5100 system, you must see it yourself. But be warned, the temptation might prove too great.

The Sound Craftman

Masters in the science of sound

319 Hay Street, Subiaco 381 5114
After the Pet, comes a Super Pet

The Commodore Pet computer started throughout last week. At the Leonard Hi-Fi official release of the Koming cassette deck the Commodore Pet stole the spotlight.

Meanwhile down at the north toward Colac, the Hotel Rugby, national sales manager for Commodore Computers, took the company's Super Pet, a powerful IBM-like personal computer system aimed at the small business market.

The Super Pet was installed in the hotel's small but stylishly fitted computer lab where the manager and his staff were holding a meeting to discuss the latest in computer technology.

The Super Pet's main feature is its ability to handle a large number of tasks simultaneously. It is equipped with a built-in word processor, spreadsheet, and database management program. The system also includes a full-screen graphics editor, a paint program, and a calculator.

The manager was particularly impressed with the Super Pet's ability to handle tasks quickly and efficiently. He said that the computer's performance was exceptional, and he was confident that it would meet the needs of the hotel's guests. The manager also noted that the Super Pet's price point was competitive with other similar products currently on the market.

In addition to its technical capabilities, the Super Pet is also designed with ease of use in mind. The manager said that the computer's user interface is intuitive and user-friendly. He said that he had no difficulty setting up the system or understanding how to use it.

The manager concluded that the Super Pet is an excellent product for small businesses like his hotel. He said that he was confident that the Super Pet would be a valuable asset to the hotel and would help to improve its operations.
New pool and top off great

"What a year! Was it a good year?" Sir George Redfern was not talking about his social life nor on the quality of a wine.

By LESLEY ANDERSON

Through good and the trying of events for a new superintendent of the Western Australia Police Department, Sir George was about to be appointed. The position was an important one and would require a great deal of tact and diplomacy.

As Chairman of the Western Australian Police Board, Sir George had always been known for his wisdom and fairness. His appointment was seen as a significant step forward for the force.

Business

Big 16K memory

System 80 computer with built-in cassette deck & 16K memory

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Dick Smith Electronics

STORES THROUGHOUT AUSTRALIA

THE SUNDAY TIMES, NOV. 28, 1982
New gumshoe dines to win

NERO Wolfe now joins the distinguished list of private detectives of film and television in a new series premiering on Channel 9, Wednesday, at 9.35pm.

Nero is in all the detective kind, allowing his brilliant mind to solve the good wide-open problems in the high life of his New York apartment.

The mysterious Wolfe is played by the author, William Conrad. The show will be augmented by an extensive cast, including well-known radio performers.

Wolfe's only physical activity is to bid adieu to his personal chef in the privacy of his living room. Wolfe is the creator of the series, which is not to be interrupted by or dropped by especially busying.

Idealism pits Arab against Jew

The Jerusalem File (Channel 7, Friday 10.30pm). In a good work for feature film this is the others, the ones for fine and critical writing.

In the past week, the formation of the Arab nations and the others for fine and critical writing.

Epic history of Christians

The story spans the ages, from the creation of the first Christian group, to the rise of the Church in the third century.

The story starts with the first efforts of the Christians to spread the word of Christ, and how they struggled to overcome the difficulties and obstacles they faced.

The story also shows how the Christians spread their message to the rest of the world, and how they continued to grow and flourish.

The story of the Christians is a story of faith, hope, and perseverance.

Glen storms in Britain

GLEN Campbell is one of those rare creatures who can take a country and perform before a large crowd.

His latest tour was an outstanding success, and received a standing ovation at the Royal Albert Hall in London.

Glen Campbell is one of the most popular and accomplished country and western artists in the world.

During his recent visit to Britain, he performed at the Royal Albert Hall, and received a standing ovation from the audience.

The program included many of his signature songs and hits, which were well received by the audience.

Glen Campbell is a true legend in the country and western music world, and his performances are always a treat to watch.

GRAB A BARGAIN!

CANE CHASE LONGUE $15 SEE READERS' MART WORKS 328 0221

Desperate Blues

BLUES singer Teddy Pendergrass made headlines with his first television appearance on Channel 9, Thursday at 8pm. In the 60-minute concert at Lake Tahoe, he sings two of his million-copy sellers, "Only You and Close the Door."
**Hours of fun in the VIC**

I always saw the home computer eventually taking over from the electronic games centre for home entertainment.

After all the small home computer is no more than a more versatile version of the electronic games centre.

But I never thought I would see them pidging in a fight against each other.

Until now the electronic games centres have been winning hands down. According to market research, people are beginning to tire of the computer keyboard and find it much too slow in performance.

The three basic units of electronic games centres are the infinite game board, the home computer and the video machine. Each has its own advantages and a more or less equal number of devotees.

In Australia we have seen a steady increase in the interest in computers and a very high number of home machines.

But that is about to change as computer professionals have decided to move into theVIC.

The VIC, which is more than just a computer, has reduced the cost of electronic games centres from $10 to $15 and is proving to be a very popular item.

The VIC has all the features of a normal home computer and is also a good game machine. The VIC has a color picture and a games console ideal for the beginner. Especially school children and the young computer user.

The VIC Commodore which can double as an electronic game center and a home computer.

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**Companies woo Dept**

The pace is being stepped up in the schools and computing centres around. All major computer manufacturers would like to get their teeth into the educational market. They want to be the recommended computer for schools in Australia.

So, as the ABC and the BMD seem to be the only two in the market, the government is in a unique position to recommend a computer that they can and should use.

For example the IBM, Oxford, Cimco, or a company in the Beverley Park that produces a computer that the school would like to use.

**ARGUE**

There are other schools of thought that believe that it would be better to save money and buy 30 Commodore VICs for $200 each and give every child in the school a computer that they would have to take home.

There is no such thing as a savings account for a computer. If less than an expensive computer, they would have to save in an expensive computer. If less than an expensive computer.

Then there is the other school of thought that says a cheap computer should be completely computerised. To use a computer, a teacher with a master control can switch on to any of the computers to see whether they are working.

Tandy has donated one of those computerised electronic games machines to the Australian Department of Education. If they are not working, the teacher is told.

Meanwhile Tandy has introduced the first computer to schools and is offering a range of schools packages.

Another offer from the school computer centre means the schools have got the advantage.
Tandy Electronics

Just Can’t Wait
For Christmas Sale
HURRY! Sale Prices Expire 31st December, 1982

TRS-80, 16K Color Computer
- Color with Sound Effects
- 16K RAM
- Easily Attaches to TV

SAVE $110

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A TRS-80 Color Computer is a bright Christmas gift that the whole family will enjoy. Everyone can use it; organize personal finances, use it as an educational aid for your children and play any number of games. Complete manual included.

Joysticks. Add fun and excitement to games. 39.95 pair

CTR 80 Cassette Recorder/Save, load programs. 79.95

Dust Cover: protects accessory against damage. 8.95

By Christmas, Tandy will have available 16 Program Packs covering every conceivable computer application. Enjoy many hours of family fun and excitement with Tandy's wide range of computer games; manage your personal finances and give your children something by utilizing Color Computer's educational software. All inexpensive and ready to run.

Cordless Fone—Gives You a Free Hand

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Unrestricted communication in the home, office or workshop. Connect base station to AC power point and telephone line. The remote hand set allows free communication up to 50ft.

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TRS-80 PC-1 Pocket Computer has the facilities and most of the capabilities of a desk top computer in the palm of your hand. Great for urgent on-site computations. Programmable in BASIC; 19K RAM. Perform multiple statements, strings, arrays and more. Manual included.

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Remote Control Super Cars for Super Xmas Gifts!

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Digital Propulsion, remote Turbo Racer with Lights and Sound. 99.95

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Electronic Games

A. LCG Computer Backgammon. Test your skill or learn how to play — try to beat the computer through 30 game pips, electronic dice. Hand battery. 74.95

B. Deluxe Computer Chess. Has built-in Board and Pieces improves your technique with 8 skill levels. Rext Battery. 69.95

C. Sensory Chess, ideal for beginners. Computer reads every move made. Features 8 skill levels that will slowly improve your game. Rext battery. 69.95

OVER 300 STORES AND DEALERS AUSTRALIA WIDE

* Independent Tandy Dealers may not be participating in this ad. If you have any question about pricing, please ask your individual Dealer Store or call Tandy store.

THE SUNDAY TIMES, DEC. 5, 1982
A ripoff by Govt.

The Government is losing $200,000 in revenue each year in the form of tax relief on interest paid on government bonds. This is according to a report prepared for the Commonwealth Bank by the government.

Important

The report, which was presented to Treasurer Philip Ruddock, states that the government is losing approximately $200,000 per year in tax revenue as a result of this tax relief.

Winning name

The name of the winner of the "Atari 20" Home Colour Computer is Victoria Computer. The company is based in Victoria, Australia.

Gallipoli among new home videos

The new home video release of "Gallipoli" has received mixed reviews. Some critics have praised the film for its historical accuracy and emotional impact, while others have criticized it for its slow pace and lack of action.

Different

The film is set in the Gallipoli Peninsula during the World War I and features a cast of Australian actors. It is directed by Peter Weir, who is known for his work on films such as "The Year of Living Dangerously" and "Master and Commander: The Far Side of the World."
Browsers' food for thought

THE Minister for Arts, David Parker, says he dreams having Sunday lunch there. The food is cheap, but the books cost a packet.

He keeps returning to the New Edinburgh Bookshop and Bookcafe in Parliament House, because it is selling the same books he reads about in books he reads there. It is a cycle.

But Parker, who is a book collector, says the problem with bookshops is that there are no bookshops where he can buy books.

William Hand, who runs the New Edinburgh Bookshop and Bookcafe, says that there is a strong demand for books among the booklovers in the area.

"People in the area want to read books," he says. "But they don't want to buy them."

The problem with bookshops, he says, is that they are often in competition with the library and the university.

"But books are important," he says. "We need to support them."

Champagne brunches

The champagne brunches at the New Edinburgh Bookshop and Bookcafe are popular among the booklovers in the area. They are held on Saturday mornings and are a chance to meet other booklovers.

On this particular Saturday, a group of people are gathered in the cafe, sipping champagne and talking about books.

"I love books," says one woman. "They are like friends.""I love books," says another, "They are like friends." They are a perfect way to spend a Saturday morning. No one else is around, and the only thing that matters is the food and the books.

Mr. Hand says that the bookshop is important for the community.

"We need to support the bookshops," he says. "They are important for the community."

VOTED BEST VALUE

For two consecutive years ATARI ST Personal Computers have been voted "the best hardware value for the year" by InfoWorld Magazine in the U.S. and, more recently by Byte Magazine stated "the ST wins hands down."

* $999.00

FREE $500 MONO MONITOR

DUE TO DEMAND

Now you can own one of the world's fastest selling 16/32 bit computers for less than many of the 8-bit brands.

The Atari ST takes personal computing technology to its limit. Its perfect for word processing, database management, spreadsheets, music composition, graphic design and CAD applications, desk top publishing, education, playing, state-of-the-art games and more.

POWER WITHOUT THE PRICE

Available from your Atari specialist dealer.

Technology improves data memory

IF YOU thought the amount of information stored on an ordinary computer disk had just about reached its limit, then read on...

Researchers at IBM's Almaden Research Center in the US have predicted experimental magnetic disks with tracks 10 millionths of an inch wide will be available in 1985.

With these disks, data from storage could be read in just 10 billionths of a second, and double spaced tracks 1000 tracks per inch could be stored.

In magnetic disk drives, information is recorded in bits as tiny magnetic domains. Recent advances in disk technology have allowed increasing track densities with no corresponding increase in the recording density. 

Therefore, it is necessary to use new recording techniques, such as magnetic bar code technology, to further improve performance.

Two main areas are required for back up to the tracks, to improve read/write bit rate and to increase the density of recorded data on the disk.

The IBM team has developed a recording technique by etching the surface of the storage disk with photolithographic techniques similar to those used in semiconductors.

This thin film or cobalt alloy was first deposited onto a smooth surface. Then a contact positive of the bar code pattern designed for the disk was etched into the film to define the desired track. The disk was etched and then tested for bar code density before any disk tracks were written.

The technique was used to achieve track densities of 500 tracks per inch. 

Scientists predicted that the bar code pattern could be used to achieve a density of 1000 tracks per inch on a disk 30 centimeters in diameter.

Using this technique, the IBM team predicted that the density of data storage on the disk would double every year.
Midland Computers

WHEN Midland Computers opened operations two years ago, the proprietors chose its location in the greatest of all visitor attractions, the City of Morley.

But it did not take long before clients, seeing the top floor went empty and new Midland Computers were open and ready for business in Morley.

Paul Dobson and Steve Pretty have created a wonderful new environment stimulating the home computer market with their hard work and personal enthusiasm.

The store is a small, well-lit and inviting store; the staff is helpful and knowledgeable.

The store is a small, well-lit and inviting store; the staff is helpful and knowledgeable.

New system allows training by video

PC training by vhs has arrived

The MPI Educational Video System allows the use of a personal computer to control the operation of a single case of Video tape.

The system can be programmed so that at certain points and times the user is requested to enter information into the software.

The system can then be used to train users in the correct use of the software.

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Call Derek Hayter, 2b Orsary or Maury House for further information and packs.

COMPUTER VILLAGE

10 William Street, Perth - 281 1311

SUNDAY TIMES, DECEMBER 6, 1987

Steve Pretty fronts the new Midland Computer store in Morley.

[Image of equipment and personnel]
Apple prices down to grab-a-bargain level

RELATIVES and friends of Apple users have no doubt planned a visit to Computer Choice in West Perth but the knowledgeable Apple dealer also has a few specials running for the potential user.

Eighty-five, Coburn Smith said he has done some

The midi achieves higher quality

AT first, midi systems seemed to be ideal buys for apartment dwellers and people who wanted an extra system for the teenagers.

But according to a number of firms dealing with the increase in the number of the units they are having to arrange for midi foundations.

At Pacific Hi-Fi, the firm has reduced the price of a Technics midi for Christmas shoppers.

The unit is remote controlled with the midi operating the cassette deck, the receiver and the turntable.

But while the price has dropped, the unit is much less expensive.

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Fitted with extras

THE Ultra Turbo XT from Imagineering has arrived. Programming is easier than ever. It is fully compatible with Mirage 8000, with hi-res graphics, and it runs all Apple software. The Ultra XT can be set to either 40 or 80 columns. Special features include: 

- 16-color graphics
- 256KB of memory
- 3.5-inch floppy drive
- Serial and parallel ports

For software, the Ultra XT comes with the supplied Mirage system, or it can be loaded with any Apple software, including WordStar and other popular programs. The Ultra XT is priced at $895.

THE BEST CHRISTMAS PRESENT YOU COULD EVER GIVE YOUR KIDS AGED FROM 4-60

322 5621 129 York Street, West Perth

Instant Christmas Ideas!

Home Video Christmas Ideas

The perfect video system for the Christmas season is the Super VHS Recorder with 2-hour recording time. This recorder fits on any shelf and is perfect for recording Christmas specials, family movies, and holiday music. It is available for $299.

Winners in the Electronics Made Easy competition will receive a free Super VHS Recorder. For information, call 322 5621.

Computer Choice

SPECIAL CHRISTMAS OFFER*

Apple IIe Colour System* $2,920 $1,995
Apple IIe Monochrome* $2,179 $1,695
Apple II GS Colour System* $2,823 $2,995
Apple 2+ $795 Apple 2E BASIC $1,295

Christmas Pack $500 worth of accessories with every McIntosh sold

The best Christmas present you could ever give your kids aged from 4-60

322 5621 129 York Street, West Perth

Instant Family Computing

The perfect holiday gift for the whole family is the Apple IIe with 80-column display, color monitor, and printer. It includes over 600 software programs, including games, education, and entertainment. It is available for $2,995.

Winners in the Instant Prizes and a trip for two to London! competition will receive an Apple IIe system. For information, call 322 5621.
Business solved problem

WHAT do you do when you discover the person advertising next to you in the trade journal is also a Magneto user — and they just down the road?

From Clark was the prime mover behind the group of 25 members and it started as a business meeting. From Clark worked on projects to improve the operation of the company.

They all agreed the best way to get a computer was to work for them and that they would not leave the company to get a computer of their own.

We did not ask for a salary, but we did ask for a commission from the sales of computers to other companies.

The second advantage we have is that most of us are software engineers and we sell in the software industry.

The system we sell is a software system that we sell in the software industry.

Once the desktop publishing work is no longer needed, we can give you back to the sales person.

And the third advantage we have is that we sell equipment to small companies.

ASSISTANT EDITOR

RICHARD SWANNELL

The writer is a technical question of business computerizing, a Perth based firm specialising in computer education.

PC TALK

QUESTION: What are the advantages and disadvantages of having a computer equipment in a company?

ANSWER: The advantages are that you can save money and time. Also, a computer can help you with your work.

But if you have too many computers, it can cost you a lot of money. You also need to keep your software up to date.

If you are using a computer for a specific task, you need to have a dedicated computer for that task.

Computer Village

Looking for computer repairs or installations in Perth? Computer Village offers professional services at affordable prices. Whether you need repairs for a laptop, desktop, or server, we have the expertise to get you back up and running.

10 Milligan Street, Perth
Phone: 4811311
Save now on Commodore & Amiga at Computer City

AMIGA 500
MEGAPACK WITH FREE MIDI HI-FI SYSTEM!

WITH BONUS INTERCEPTOR FLIGHT-SIMULATOR PROGRAM!

ONLY $1495 SAVE $779
Amazing Christmas special includes AMIGA 500 computer with built-in 880K 3½" disc drive, Textsoft Plus word-processing program, BONUS games software pack (over 50 games), RAM Expansion to 1 Megabyte, Mouse, Amiga Dig Training package, RF Modulator, and our Exclusive Support Pack (see below).

AMIGA 2000
SUPERCOMPUTER NOW ONLY $1995!
Amazing AMIGA Technology, with full IBM compatibility option:
- 1 Megabyte RAM Memory
- Upgradable to 4 Megabytes
- 3½" 880K built-in hard Disk Drive
- Palette of 4096 colours
- Multi-tasking 68000 microprocessor

AMIGA 500 STARTER PACK
ONLY $999 SAVE $59
WITH FREE PAGESETTER DESKTOP-PUBLISHING PROGRAM!

Includes Amiga 500 computer with built-in 880K 3½" disc drive, RF Modulator, BONUS games software pack (over 40 games), Joystick, Mouse, Amiga Basic, and our Exclusive Support Pack (see below).

COMMODORE C128D PRO-PACK
$699 SAVE $480!

INCLUDES BUILT-IN 1571 DISK DRIVE!
Offer includes JANIE Spreadsheets, Database, and Word Processing program, IBM joystick, 50 games on Disk, a pack of high-quality instruction videos, training tape that teaches you how to operate and program your computer, and the ULTIMATE SOFTWARE PACK containing over 100 different useful programs. Plus, you get our Exclusive Support Pack (see below).

AMAZING PRINTER SCOOP!
ONLY $399 SAVE $126!
First 120 CPS, Serial IEEE and Parallel Centronics Interfaces, Hi-Res Graphics, NLQ mode, Tractor or Plain Paper, 1200 Model Printer to suit — • Q76
• Postscript, Epson, 1200
• Amiga (all models) • PC's (all models)

COMMODORE CXI COMPATIBLE!

IBM COMPATIBLE PC-COLT
$1299 SAVE $200!

NEW RELEASE TURBO PC — BONUS 10MHZ MODE INCLUDED
Includes Dual 880K Disk Drives, 640K RAM Memory, Serial/Parallel and Mouse Ports, Battery-backed clock-calendar, small footprint, and built-in graphics capability.

BONUS — includes software:
• Spreadsheets • Wordprocessor • Database • Communications
• Genealogy • PC Cheque • Games Disk • Typing Tutor • Pop-up Desktop Organiser • Language Trainer

Also includes our Exclusive Support Pack (see below).

1541-II DISK DRIVE
Suits all C64 models — Load and Save programs super fast
Limited Stock only — Sorry, cash only at this price.

SUPER SPECIAL
$339!!

EXCLUSIVE SUPPORT PACK INCLUDES —
• Free unlimited copying of over 2000 programs from our exclusive library covering Games, Business, Education, etc.
• Special Preferential Customer ID Card — save $5 on your future purchases and take advantage of our exclusive special offers.
• Technical Advice, assistance and help from Western Australia's recognised Commodore Experts.
• Special Extended Warranty Options.
• Free run of Amiga/OS64128 Wins video training Programs.

TOTAL VALUE... OVER $200!!

LAY BY — $5 ONLY. Secure your lay-by for Xmas
TRADE-IN — we accept most computer equipment for trade-in
Phone now for details
PHONE ORDERS — Call (08) 4615888
FINANCE — Leasing or Hire Purchase through AGC
HOME DELIVERY — We deliver and install in the metro area

MURRAY ST, PERTH
352 Murray Street, (City King St), Perth. (08) 321 2002

MIRRABOOKA
Shop 9, Miraabooka
Square Shopping Centre, Miraabooka. (08) 349 9291

SUNDAY TIMES, DECEMBER 4, 1988
111
FANTASTIC CHRISTMAS SALE
EVERYTHING MUST GO AT COST THIS WEEK
FIRST COME FIRST SERVED

EXAMPLE
MAC PLUS
MAC SE HARD DISK
KEYBOARD
IMAGEWRITER PRINTER
3.5" DISK DRIVE
1MB MEMORY EXPANSION
APPLE IIGS COLOUR
APPLE IIE COLOUR
APPLE IIE MONO
APPLE II PLUS

WAS OUR PRICE $3895 $6895 $240 $1195 $695 $845 $3223 $2935 $1959 $500
OUR PRICE $2995 $5295 $184 $895 $545 $645 $2495 $1995 $1395 $395

MUCH MORE EQUIPMENT, AND MANY OTHER ITEMS INCLUDING SOFTWARE, FURNITURE AND PARTITIONS SURPLUS TO REQUIREMENTS.

ALL AT SPECIAL PRICES FOR A LIMITED PERIOD

TELEPHONE 322 5651 8AM TO 5PM WEEKDAYS
High quality hi-fi units

FOR those wanting to spend under $2000 on a system that is special this Christmas, many systems are well worth a look.

The compact hi-fi systems were once sold as items for those living in apartments and other situations with limited space.

For those days, with their improvement in quality, minis are sold as quality hi-fi units. It is possible to buy the units for under $100.

The Electronic Enterprise Group has four in its Christmas catalogue for under $100, including an Amanzi JVC, Aiwa and Akai system.

Similar

Also in its catalogue is the Amstrad Studio 599, similar to a mini in many ways, but advertised as a recording studio mixer.

Among the systems I have had a good look at are those manufactured by Panasonic and Marantz.

Both companies make mid-range systems with separate components. This arrangement means that if one piece proves to be, repair or replacement is relatively easy.

With many three-in-one systems, repair and replacement means cutting the entire box to the store and leaving it for the duration.

Recently I had the pleasure of a Marantz system in my home office.

This provided me with the opportunity to listen to some great comedy in the privacy of my own room.

The Marantz 5502 ($1998) comes with a turntable, tuner and cassette deck.

Speakers with the system are of a good standard and the remote is easy to follow and operate.

The CD features 16-bit, 44,100 over sampling, automatic music search and shuffle play.

On the graphic equaliser is a memory button which allows the user to memorise a graphic setting and then experiment with it.

The cassette deck is a useful unit with Dolby B and C. continuous play, high speed dubbing, fast forward and fast reverse buttons that work well when the unit is playing and a synchronized recording button.

Marantz has a range of units and they start from $149.

It is expected that all systems can be mixed and matched to suit a user's requirements.

Save $300 on software when you buy the world's best home computer.

The Atari 520ST.

Recommended Retail Price $799

For a mere $799 you always get a great deal when you buy the world's best home computer, the Atari 520ST.

You get a home computer with the same brain as the legendary Apple Macintosh. You get eight times the speed and memory of an ordinary 8-bit home computer, such as the Commodore 64.

And because of the technology on the Atari ST it's easier to use. Simply point and click with the mouse...you don't need to know how to type.

And if that's not enough, with the Atari 520ST you get a number of additional features built into the rest of your computers offer in options. Like MIDI (Musical Instrument Digital Interface) to teach and enjoy music.

And an RF modulator which allows you to simply plug your ST into the home TV.

Perhaps this is why Info World has described the ST as "the best hardware value of the year". Well now it's just become the best software value too.

We call this incredible software offer "The Atari Advantage".

Why? Because for an additional outlay of only $95, when you buy the Atari 520 you get 1040ST, you automatically take home over $400 worth of educational and entertaining Atari software.

There's First Word which turns your home computer into a powerful word processor. Novochrome for high-resolution graphic design. Plus the challenge of man vs. computer - the Atari Advantage.

Avid Home: It's the computer software offer that you'll find impossible to resist. And it's available now, at your nearest Atari dealer.

But hurry, stocks are limited.

The Atari Advantage Offer.

Over $400 worth of software for $95.

The Atari Advantage.

Over $400 worth of software for $95.
Buy 7 boxes – get this watch free!

Verbatim diskettes announce an offer that’s timely & logical.

Right now, if you purchase Australia’s leading diskettes, you could qualify for a magnificent bonus. In each 5.25” box of Verbatim Datafile 2S HD, 2S HD and Datafile Plus 2S/2D, you’ll find a token.

Buy three boxes and the three tokens enclosed will earn you a beautiful wooden calculator worth $30.

Buy seven boxes, and we’ll give you an elegant wooden wristwatch worth $80. And with every order of ten boxes, we’ll give you the matching pair.

But you’ll have to hurry. Your Verbatim dealer will only be making this offer until December 31st or while stocks last.

Best of all, by purchasing Verbatim Datafile or Datafile Plus diskettes, you’re giving yourself the best protection against data-loss that money can buy.

Verbatim
A Kodak Company

SUNDAY TIMES, DECEMBER 11, 1988
Commodore keeps this family happy

YOU NEEDN'T PAY TOP PRICES
FOR TOP QUALITY
TOSHIBA
TOSHIBA LAPTOP
FULL RANGE AVAILABLE
FROM ONLY: $1470

EPSON
FREE
LX600 WITH
EPSON PCE's
FULL RANGE AVAILABLE
LASY BY NOW
FOR CHRISTMAS

COMPUTER LIQUIDATION PTY LTD
Unit 1, 399 William St, Northbridge
328 5392

LAUREN Stan- den (17) is a Year Eight student at Swan View Senior High School and a Commodore 64 user.

"Time on the computer is sometimes hard to find - she must first get past her father, Alf, and broth- er, Luke.

"Sometimes we fight over the keyboard, but usually she'll find there is room to use it." Lauren said.

"I am using a typing tutor, and dad is teaching me how to use Speedscript, a word processor which I will use to type out my school assignments.

"My favorite games are Summer Games and Winter and World Games, all based on the Olympics.

"The player chooses countries and plays them off against each other, or you can play against the computer.

"Luke's favorite game is a version of space invaders and Alien uses the machine to write letters and documents.

"Lauren has no desire to change her Com- modore 64, but for Christ- mas she would like to get more games and software.

"She would also like a few more and educational games, including some based on the space invaders.

"Lauren will take a computer course next year, but doesn't intend to major into the in- dustry; when she com- pletes her studies she would rather be a solicitor, a dancer or an occupational therapist.

Abacus adds to its business

IF YOU ARE LOOKING FOR CALCULATORS AND ARE NOT SURE WHERE TO START, IT MIGHT BE WORTH A WANDER DOWN TO CLAUSERS ARCADE IN THE CITY CENTRE.

Since 1983 Abacus has been in the middle of the Clausers and business has grown steadily.

The product range has expanded from calculators to computer systems.

Owned by West Australians Ron Mac- barneth and Mike Ford, the firm has increased its staff over the seven years from two to 25.

The original concept was to be a calculator specialist, with particu- lar emphasis on provid- ing school calculators.

"However, we have successfully expanded into the full range of office equipment, from high-speed typewriters, dictating equipment, telephone systems, facsimile and reproducers.

"We soon learned that a business is as good as its staff, so we place great emphasis on recruiting and train- ing new people to ensure we can deliver a quality service.

"Abacus now handles equipment from Sharp, Hewlett Packard, Texas Instrument, Xerox, Canon, Unisys, National, Olympia and Sony.

"And in a new move to make its image in the personal computer mar- ket place, Abacus has now become an Am- strad dealer.

Mike Ford and Chris Johnson check out the latest addition to the Abacus range of products.

NIMROD LATEST RELEASES

November 1988

NEW MINI AT

NEW MINI AT

LATEST IN THE LONG ROLL CALL OF AT COMPLIANCE SYSTEMS. THIS IS THE 80386 AT NEW WITH HARD DISK UNITS SPECIFIC FOR 32 BIT MICRO PROCESSORS. FROM ONLY $1955

NEW MINI AT

LATEST IN THE LONG ROLL CALL OF AT COMPLIANCE SYSTEMS. THIS IS THE 80386 AT NEW WITH HARD DISK UNITS SPECIFIC FOR 32 BIT MICRO PROCESSORS. FROM ONLY $1955

NEW NIMROD 386 TOWER

NEW NIMROD 386 TOWER

LATEST IN THE LONG ROLL CALL OF AT COMPLIANCE SYSTEMS. THIS IS THE 80386 AT NEW WITH HARD DISK UNITS SPECIFIC FOR 32 BIT MICRO PROCESSORS. FROM ONLY $1955

All products serviced by W.A.'s largest computer service organisation.

For more information call 620 6484 or visit our showroom on 620 6484 or visit our showroom in Clau- niger Arcade, 9-11 Clau- niger Arcade, 9-11

NIMROD COMPUTERS BUSINESS SOLUTIONS

322 5651 8AM TO 5PM OPEN SATURDAY and SUNDAY
Farming software takes centre stage

Although many aspects of farming have altered with time, there is one area that has remained almost unchanged. It is the part many farmers would like to forget, but it is every bit as important as the management of the crop or stock — farm accounts.

A company based in Newmarket has developed a program called Farms — Financial and Rural Management Software. Company Director Stephen Brown said Farms was not just Cashbook, but a fully integrated perpetual accounting system.

An unlimited amount of farm accounts can be stored at any one time, and fully integrated asset controls enable calculation of future depreciation benefits if advanced, said Mr Brown.

"Profit and loss, balance sheet and stock reports can be called on over the year, month or as required," said Mr Brown.

The program features two components: the accounts and the data processing.

Other features include the ability to do lots of minor or major calculations, including labor charges, budgeting for additional production, and built-in word processor and spreadsheet.

Other modules are now available and include: beef sheep, dairy and poultry management, as well as denim.

These will be fully integrated with the financial modules.

THE Australian information industry urgently needs to do something about unauthorised copying and illegal marketing of proprietary software.

"Unauthorised software reproduction is on the increase worldwide," said Mr David Curtis, chairman of RIA and senior corporate attorney for Microsoft Corporation.

"Negligent action needs to be taken internationally to protect the rights of software developers and ensure our industry can continue its expansion and develop new products," he added.

Mr Curtis was visiting Australia with US attorneys and board members of the Business Software Association (BSA).

He came with fellow BSA board members from Lotus Development Corporation and Ashton-Tate Corporation.

He said the primary purpose of the BSA visit to Australia was to discuss the problem of pirated and counterfeit software today.

Action

It was also to call on the information industry to take greater action against unauthorised use to protect its intellectual property assets.

"The major challenge for the industry is to advance the cause of intellectual property protection for software among government and legislative bodies throughout the world," said Mr Curtis.

"Many of those most fully responsible for the problem are the very people who sell software," said board member Richard Neri.

"Meeting this challenge requires unanimous support throughout the industry and not just software manufacturers, but hardware vendors, OEMs and dealers who market the products," said Mr Curtis.

Mr Curtis called on software authorities in Australia to play a more active role in the enforcement process.

Formed in October 1988, the BSA represents leading manufacturers and distributors of business software for personal computers.

Its members are Adobe Systems, Ashton Tate, Autodesk, Lotus Development, Microsoft and Microsoft Computer World.

This year, the BSA has initiated a series of legal and criminal actions against organisations involved in unauthorised software copying in_info_ Taiwan, Singapore and Hong Kong.

In comparison with the UK and the USA, the Australian industry is poorly represented in enforcing the problems of software theft.

In Australia, only 1.3% of software products are shipped as PC packages compared to 5.3% in the US, said BSA board member Neil Conmiss.

Pupils apply skills

At the recent Sydney Senior High School have set up their own electronic bulletin board.

Setting up, management and maintenance of the board was organised by three students at the school — Jason Wood and Devlin Kilminster.

Both students have strong computing knowledge, and the three students at school in their own time, tested other methods on the use of the system.

The system runs on one of the school's XT compatible computers with a 40MB hard disk drive donated by D. Micro. It is linked to a Massstore 4000 AX modem purchased with funds donated by Newell of Australia.

A small subscription fee charged for use of the service is to be channeled into a hard-ware-bits venture designed to give all students an opportunity to access electronic communications.

The system board is on 154.142 and the phone number is 130 5506.

At 17:50:40, the BSA represents a series of legal and criminal actions against organisations involved in unauthorised software copying in Taiwan, Singapore and Hong Kong.

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FROM AMSTRAD, A COMPUTER YOUR CHILDREN WILL NEVER GROW OUT OF.

(At this price, one size fits all.)

For games machines, the game's definitely up.
Don't get us wrong.
Games are a great way to introduce your children to the technical world of computing.
But what happens when they're ready to learn something more complex?
Another outlay of money?
Not so with the Amstrad PC20.
It's a computer your children can stay with from school to the workforce and never grow out of.
You see, as well as being a great games machine that your children will love, the PC20 is also a fully IBM-XT-compatible personal computer.
This allows the PC20 to be used with almost every piece of software available, from games through educational software and on to business software.

Speaking of software, you'll also get a bundle thrown in for free:
Our Educational Compendium of ten titles such as Typing Tutor, Decision Maker and Speed Reader, will make learning the basics a lot more fun.
Added to that is a step-by-step tutorial program, Intouch, which shows you how to use the PC's operating system, MS-DOS, more effectively.

Then there's the Personal Organiser which is a diary, address book, calculator and word processor rolled into one.
And, of course, you also get high-tech games like Solomon's Key, Bedlam, Wizard Wars and Trantor.
But software isn't the only thing we're throwing in.
We'll also give you a joy-stick and mouse which makes using any software a whole lot easier.

And any questions you may have will be covered in your free three-hour 'Introduction to Computers' course at Australian Business College and other leading business colleges in all State capitals.

What's more, to operate the PC20, all you need to do is plug it into your existing TV set (a separate colour monitor as shown is also available at just $400 extra).
So for $799 you could buy a games machine or a PC your children will never grow out of.
Not much choice really, is there?

SAVE $300

For the name and phone number of your nearest Amstrad dealer, call Peter Morris on (02) 331 4808.

SUNDAY TIMES, DECEMBER 3, 1989

AMSTRAD

For the price, you get the works.

All prices shown are RRP at time of print and are subject to change without notice. 'IBM' is a registered trademark of IBM Corporation. Amstrad and and High are trademarks of Amstrad Pty. Ltd. Amstrad Pty Ltd.
**CHRISTMAS SHOPPING IS EASY!**

**UNDER $10!**

**ENERGIZER**

That's right, purchase any 3 top quality Energizer battery packs and you'll be eligible for $5 cashback from EVEReady! Except 2 x AA packs - buy any 3 packs of C, D and 4 x AA packs and return proof of purchase to EVEReady for a $5.00 cashback offer limited to two (2) per address. Offer closes 30th January, 1989. Visit your local store for more details.

**SENSATIONAL OFFER!**

- **$5 CASHBACK! ON ANY 3 PACKS**

**2-in-1 PERSONAL ALARM**

- *Doubles as a torch*
- *Fits in pocket or purse*
- *High pitch alarm*

**Saves Batteries! VERSATILE POWER SUPPLY**

- *Ideal for many household appliances*
- *3, 4, 5, 6, 7, 9, 12V @ 300mA*
- *With start plug*
- *Cat 8520*

**BARGAIN 2-BAND RADIO**

- *FM/AM selection*
- *Telescopic antenna*
- *Handy carry strap*
- *Cat 4567*

**GUARDIAN MINI ORGAN**

- *With 10 pre-programmed tunes*
- *Playback, Variado & Pitch control*
- *A/C/DC operation*
- *Cat Y1011*

**GUITAR**

- *Just Ar & Shake*
- *HANIMEX 35HL CAMERA*
- *Built-in flash*
- *Cat Y2560*

**WIRELESS INTERCOM**

- *Voice activated*
- *Mains powered*
- *Master can be moved*
- *From room to room*
- *In three colours*
- *Cat Y-9091/1-2*

**BARGAIN**

- **$10!**
- **$20!**
- **$30!**
- **$40!**
- **$60!**
- **$80!**
- **$100!**
- **$150!**
- **$180!**

**UNDER $20!**

- **Great Value! COLOURFUL PHONES**
- *Nine fantastic colours*
- *With matching wall bracket*
- *Cat F-6200/BA*
- *Just 14995*

**UNDER $30!**

- **Learning is fun with FUNWAY 1 GIFT BOX**
- *Ideal for the beginner*
- *26 projects to build*
- *No dangerous voltages - It's Safe!*
- *No soldering*
- *Skip by step instructions*
- *Cat X-2605*
- *29995*

**UNDER $60!**

- **ATARI/COMMODORE JOYSTICK**
- *Outstanding quality*
- *Uses genuine micro-switches*
- *With 3 year guarantee*
- *Cat X-6331*
- *54995*

**UNDER $100!**

- **3-IN-1 MODULAR TOOL**
- *It's a drill*
- *It's a screwdriver*
- *It's a soldering iron*
- *Cat 1-5712*
- *$99*

**UNDER $200!**

- **FANTASTIC CAR STEREO**
- *FM stereo/AM radio*
- *Eight station memory*
- *Station search*
- *High quality cassette*
- *Matching dual cone speakers*
- *Cat A-1425*

**SUNDAY TIMES, DECEMBER 3, 1989**
A PROMINENT Hong Kong PC re-seller and development company looks set to relocate to Australia, and WA is in the front line to win the company’s manufacturing business.

Digital Designs Computer Systems managing director Reg Nutter was in WA last week to sign an expression of interest with executives of Data Tech Computers and talk to senior officials in the State Government.

He said he was keen to rejuvenate the electronics industry in Australia.

Mr Nutter said the company was looking at the feasibility of moving to Australia and setting up a manufacturing plant. He estimated the initial investment at around $25 million.

Trading-established dealers could top $15 million in the first year of operation and reach $25 million within two years.

The company’s computers were manufactured by Data Tech two years ago and are now assembled on a completely automated plant using back-plane mount technology.

The company factor is the key new assembly line for the business in Hong Kong.

We do not have the hardware manufac-
tures in Hong Kong. The quality of the hardware is the key factor in what we do. We do all the design work, the support and the marketing of the products.

While in Australia, Mr Nutter will talk to other parties interested in his plan, but because the company has a long relationship with Data Tech the two are considering an amalgamation of the WA computer dealer with Digital Designs.

The company operation — Com-
ter Controls — is in NSW and Queensland.

Mr Nutter said the new computer would be similar to those sold in Hong Kong.

We must not have the same manpower, the same technology, the same organization. We must think outside the box. We have not thought enough in this country.

Mr Nutter also said his company had been a long-time supplier of equipment to the Northern Territory government.

We are keen to see this move in,

This Christmas, Amstrad are giving away a BM-compatible PC640 computer with 480, RAM, dual 5.25 floppies, keyboard, 10-screen parallel and serial ports, MS-DOS and operating system, two button mouse and colour monitor.

For more information, Phone Mr. Nutter at Digital Designs, 181 Pitt St, Sydney. A \n
The perfect Christmas Box.

(at this price, it's a gift)
Software companies move to own piracy

In a move designed to eliminate unauthorized copying and piracy of software in Australia, major software companies are currently seeking a legal challenge to the provisions of the Copyright Act. In addition, they are considering legal action against businesses using pirated software.

The aim of the companies is to promote the use of legal software products in Australia. They are considering legal action against businesses using pirated software.

The move comes after the Australian government announced plans to introduce new laws to combat piracy. The government has already introduced legislation to combat online piracy, but the move to tackle the issue in the real world has been welcomed by the software industry.

The industry has formed a coalition to fight piracy and the software companies have already begun legal action against businesses using pirated software. The companies have already taken legal action against businesses using pirated software.

The companies have also launched a campaign to educate consumers about the risks of using pirated software. They have also launched a campaign to educate consumers about the risks of using pirated software.

The campaign is backed by a coalition of software companies, including Microsoft, Apple, and IBM.

Principle

Research reveals that consumers are more likely to use legal software if they are informed about the risks of using pirated software. Consumers are more likely to use legal software if they are informed about the risks of using pirated software.

The campaign aims to educate consumers about the risks of using pirated software and to encourage them to use legal software.

Apple Australia tops new standards of excellence

Apple Pacific has announced its Australian subsidiary will now be responsible for the development of new products and services for the company.

Apple Pacific president, John Southern, said the decision was made to allow Apple Australia to focus on developing new products and services for the local market.

"We have been working on this for some time," he said. "It is a natural progression for our business and we are excited about the opportunities it will bring."
Laser
One of the top selling computers in Holland and USA
PC 3 LAPTOP ($395)
and full range of computers and software
SOMCO 382 2511
274 Katoomba Rd. Sollentuna

Group adds to range

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One of the top selling computers in Holland and USA
PC 3 LAPTOP ($395)
and full range of computers and software
SOMCO 382 2511
274 Katoomba Rd. Sollentuna

UK specialist data products manufacturer Microscribe has added the 480 series to its range of hand-held terminals.

Microscribe units have found applications in such diverse fields as industrial design and military and police investigations.

Australian distributor Lexmon Pacific said the new series comprises the Model 440—with a liquid crystal display of 4 lines of 80 characters—Model 450—4 lines of 100 characters—and the soon to be released Model 460—16 lines of 80 characters.

All models have a full feature heavy keyboard and are industry standard DEC VT100 terminal emulation.

Compact, 1.2 kg, and weighing less than the 480 series terminals, are ideal for field applications.

Standard features include a choice of decimal or HEX display modes, capture and search, programmed menuing, and the ability to receive 8-bit data.

Each of these systems includes:
- ABILITY SOFTWARE PACKAGES
- ALL FREE
- ABILITY Spreadsheet
- ABILITY WordPro
- ABILITY Database
- ABILITY Graphics
- ABILITY Communication
- PC Plug-in Terminal $65
- LE MINIScribe MOR 5 - $476
- GENIUS MOUSE $65
- PAINT BRUSH 8 - $5
- UTILITY PACK $18
- STORAGE BOX $19
- 8 hours training $100

PLUS FREE HYUNDAI PRINTER

THE new Chenal Stratus overhead projector panel is ideal for displaying computer text and graphics to large groups.

The small compact device can be used with the CGA or EGA port on any IBM clone, and can be connected to a screen, television, or projector, to display text, graphics and data at any point during a presentation.

The lightweight unit has a 400 million white phosphor lamp, and an 1800:1 contrast ratio.

It is available in black or white for $800.

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Local dealer a witness to computer revolution

VINCE Govan from Hay Computers has witnessed the Amstrad revolution from both sides.

He was once WA representative for Amstrad and before that, AWA Mitsudhitsu when it distributed the computers for the British parent.

While in that role he perceived what he thought was a need for a different attitude in the Amstrad marketplace.

"In April this year Mr Govan and his partners took over Hay Computers and began offering Amstrad with long-term relationships in mind."

"For four months in a row, Hay Computers has been the State's leading Amstrad dealer."

"We wanted to sell the computers which had become associated with box-moving dealing shops, and offer service and support packages."

"Mr Govan said.

"It had worked well for us and business is continuing to increase even though many have said there is a downturn."

"It becomes clear there was a need for support and service especially in the business community."

"The store is centrally located and clients come from as far apart as Rockingham and Joondalup."

"The beauty of the location is that people from all over the State walk in the door," he said.

"We have found we can cater to all those people without sufficient support always being a little difficult to the more distant areas, but we do what we can on the telephone."

"Hay Computers expanded its computer range three months ago and now stocks the Sanyon range of PC computers including peripherals."

"In addition the business sells Start printers."

"Software plays an important role in its business activities and the shop stocks a wide range of word processors, accounting packages, databases, spread sheets, games, utilities education programs and computer accessories."
Money was well spent

This Christmas I will not get a thing. We made an arrangement, my partner and I, not to spend on each other. And besides, throughout the year I have done well with spending on computers and the computer bits.

The computer room was money well spent. It combines the best of both worlds — high tech-gadgetry and natural furniture.

This tale of the French door is a technological paradox. On one side the French doors onto the balcony, and on the other the Macintosh XT and AT, both sliding into a compartment of XT and AT.

Last year, in 1988, the operation running an MS-DOS, with two 2040E hard drives, 1MB of main memory, plus Mac Plus 128K, with one 2040E "zip" drive and one 288K "zip" drive.

The double doors will remain as they are until I can afford them with larger capacity.

The experience was great but with minor adjustments. The operating systems were not as flexible as expected.

The Mac was more user-friendly. However, the Mac Pro was a disappointment. It was not as user-friendly as expected.

The final outcome was not as expected. I had to spend more money on the computer.

Admires

I admire the increase in power and memo- ry. The Mac Plus is a $1,300 machine that runs both Mac and MS-DOS.

The Apple IIc is a good machine. The Mac Plus is a good machine, but it is not as user-friendly as expected.

The Apple IIc has a good keyboard. The Mac Plus is a good machine, but it is not as user-friendly as expected.

The computer is a great machine. The Mac Plus is a good machine, but it is not as user-friendly as expected.

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IF YOU ARE looking for an efficient and useful gift to give a computer user, you could not go wrong with a protective cover.

Increasing numbers of industry, business and home-based workers are relying on electronic equipment. But what happens when the equipment breaks down? Do you have a dust-free environment? Do you replace the worn-out, foreign objects or a faulty operating system? Reliability is key.

That is where WA manufacturer Creative Computer Covers has covered.

**Protection**

The computer and electronic equipment protection company has been operating in WA for over two years and has a 25% share of the Australian consumer dust cover market.

Custom Computer Covers manufactures a variety of protection products for computers and equipment and wholesales them to the retail industry.

Products include dust covers to order for virtually any type of equipment, mouse pads, desk mats and static guard mats designed to protect the computer Keyboard Sealant.

The Balfanik is a moulded cover designed to cover the keyboard and allow the user to operate the keys while the cover is on, never giving a chance to destroy expensive keyboard systems.

Also available are static guard mats designed to protect computer systems and prevent corruption of electronic components and data.

**Markets**

So far we have found markets for our products in New Zealand, Phoca New Zealand and Canada, and we hope to sell our products to the US market.

In the past year we have doubled our sales volume and increased our staff by more than 50%.

The company is expecting to report a profit before tax for the year.

For more information phone 44 44 44 44

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**Computers for Xmas**

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Offers best quality, reliability and support.

Our computers are manufactured in Singapore and are widely used throughout Australia and Europe. Buy direct at Singapore Prices.

- 12 months warranty in Australia
- Tested 72 hours before shipment
- Top quality components
- 100% software compatible
- Buy at Singapore prices - cut out the middle men and save

**Limited Editions Only**

**Special Offers**

- X7 Turbo 10MHz
  - Only
  - AT-TURBO 12MHz
  - Only

**Direct Marketing**

**Send Systems Anywhere in W.A.**

**Model** | **CPU** | **Speed** | **Memory** | **Hard Disk** | **HAPPY** | **SYSTEM** | **Desktop** | **System** | **W.A.**
---|---|---|---|---|---|---|---|---|---
**XT-B** | **8088** | **47.7 to 64K** | **36K** | **600** | **1/8** | **760** | **975** | **1260** | **1680** | **1740** | **2040**
**XT-B** | **8088** | **47.7 to 64K** | **36K** | **600** | **2/8** | **860** | **1075** | **1380** | **1900** | **2080** | **2360**
**XT-A** | **8086** | **47.7 to 64K** | **2M (656K)** | **36K** | **1/8** | **960** | **1175** | **1480** | **1890** | **2040** | **2360**
**XT-A** | **8086** | **47.7 to 64K** | **2M (656K)** | **36K** | **2/8** | **1060** | **1275** | **1580** | **2040** | **2360** | **2680**
**XT-A** | **8086** | **47.7 to 64K** | **2M (656K)** | **36K** | **1/8** | **1160** | **1375** | **1680** | **2140** | **2360** | **2680**
**XT-A** | **8086** | **47.7 to 64K** | **2M (656K)** | **36K** | **2/8** | **1260** | **1475** | **1780** | **2240** | **2460** | **2780**
**XT-A** | **8086** | **47.7 to 64K** | **2M (656K)** | **36K** | **1/8** | **1360** | **1575** | **1880** | **2340** | **2560** | **2880**
**XT-A** | **8086** | **47.7 to 64K** | **2M (656K)** | **36K** | **2/8** | **1460** | **1675** | **1980** | **2440** | **2660** | **2980**

**System includes 101 keyboard, manuals, 12 MONTHS WARRANTY and *Monitor with appropriate display card specifications and prices subject to change without notice.
Heaps of products at the right price

TRE Morley Commodore Users Group is a social group that meets every Thursday night at the Les Hanaman Community Centre, Walter Road, Morley.

And that’s where the club offers members heaps of products at reasonable prices.

So if it’s a Commodore gear you are looking to buy this Christmas, check out the Morley User Group prices.

They have the following Commodore – the latest product from the group allows a user to plug into a computer, via a gender box, a printer and joystick. Designed for the Commodore Amiga, it sells for £30.

Rob Klock will help prevent head manipulation of your disk drive and have you a repair bill of £80 x 200.

All way to UK to prove a point

P. M. Bees has a mission to prove the great benefits of maintaining a Commodore computer.

To prove his point he will show all the way to the UK for this year’s P.W. London.

While there he would use the use of the Atari computer in the service of the people of the United States.

The Atari has 450 capacity to store data in a single disk. The disk drive in the service of the people of the United States has 450 capacity to store data in a single disk. The drive in the service of the people of the United States has 450 capacity to store data in a single disk.

When the full power of Atari computers are used, the people of the United States will be able to store 450 capacity to store data in a single disk.

The Atari is a 1MB model with a 20MB hard drive and all for £2500 but the Atari will be on the market in the UK.

To the contrary, the Atari 240MB hard disk drives which was the first hard disk disk to store data in a single disk.

The Commodore PC/XT is a 1MB machine with a 20MB hard disk drive and all for £2500 but the Atari will be on the market in the UK.

Most companies like to have post-Christmas sales...

At MC-P we like to be ahead of the game.

Phone 386 8837 to reserve your machine from 9.00 AM Monday.

At an incredible $2995

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Pocket Rocket out for Mac

NETHCOMM Australia has released the Pocket Rocket 1224 Moderne for the Mac.

Introduced for use with the Mac portable, the Pocket Rocket Modem also provides cellular communications for Macintosh SE users.

NetComm is excited about the opportunity to augment the capabilities of the Macintosh Portable with the Pocket Rocket said product manager with NetComm, Ian Hood.

Sales representatives along with all the Macintosh owners can now transmit vital information using the Mac's modem.

Designed and manufactured in Australia, the Macintosh Modem for cellular communications is a high performance, battery powered modem, capable of up to 2,000 bps operation and supports the V.32bis standard of 1,400 bps used by Telecom Vaxxel, as well as 1,200 bps and 300 bps.

The modem supports CCITT B and Bell 202 standards.

The modem also supports the industry standard AT command for auto dialling, auto answer and auto disconnect, pulse and tone dialling modem control from a wide variety of telephone exchanges, built-in local and remote testing procedures, long-term memory, and a miniature speaker to allow the user to monitor the progress of a call.

The Pocket Rocket 1224 for Macintosh includes the modem, a small black box 100mm x 70mm x 50mm, with an RS-232 pocket at one end; an internal NiCad battery that can be recharged from the mains plug pack or by using a car accessory adaptive supplied, and the NetComm Program for Macintosh communications software and a Macintosh compatible cable.

The Pocket Rocket will sell for $699 including tax.

In other communications news for the Mac, Paralox Computing has released a set of hardware and software for the portable.

According to its makers, it provides all the tools necessary to connect the unit to the phone or the office in the field.

The Portable Port allows Mac portables equipped with modems to operate in and exchange data with other office machine from any telephone to connect remote AppleTalk local area networks and to transfer files between portable and office machines at high speed.

It was designed to provide a one-stop solution for the mobile executive, field auditor, consultant or salesperson.

The pack includes Paralox's Terminal and Terminal Software, and the transfer software, PlusNet MACintosh and necessary accessories.

Suggested retail price is $999.

Tip of the Week:

When you buy an Epson Computer Package, you get full support. Why not the difference.

With other packages, you don't know which button to press on how to set up a program. It can be stressful.

But, with the Epson computer package, you go to a helpline number to call all the time, until you get support.

There's never been a better time to buy a quality computer. The Epson PX-5 is a high-performance DOS/MAC compatible PC, with 20MB hard disk.

What's more, every Epson computer package bought before January comes with a free Microsoft Works, a little

To take advantage of this offer, (ends on December 31st), call toll free now:

(0800) 021144

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Pegasus comes to the rescue

THE Wilderness Society received an early Christmas present this year when Pro-Line Computer Systems offered the organisation a gift of a sophisticated computer system: the Pegasus.

Pro-Line, a WA-based distributor, bought the system for the Wilderness Society.

The XE computer will be used in the Society's main office, the Old Vic Apartments, to monitor and control the Society's extensive network of computers.

With environmental challenges on the horizon, the Society sees the XE as a key tool in its efforts to reduce costs and increase efficiency.

The Pegasus computer is designed to be used in environments where multiple users need access to different applications simultaneously.

In contrast to the XE, which is designed for single-user environments, the Pegasus is intended for use in larger organisations that require high levels of security and flexibility.

The Society is excited about the potential of the Pegasus, and looks forward to exploring how it can be used to enhance the Society's operations and contribute to its mission.

Peter Robertson, from The Wilderness Society, is quoted as saying, "We are very grateful for Pro-Line's generosity and look forward to the many benefits this computer system will bring to our operations."