

Computer and Video Games ...and more! Retro-Spective...









The second iteration of Texas Instrument's failed TI99/4 computer, the TI99/4A had a better keyboard, nicer case and improved reliability. There were a number of peripherals available, such as a printer and a disk drive, all of which interconnected on the sides, leading to the computer comically growing out to the right, sometimes quite far.

TI would come out with an expansion box to solve that problem.

The TIgg/4A was popular for its speech-synthesis capabilities. Many games featured realistic-sounding speech synthesis, and there was even a terminal emulator (which connected to bulletin-board systems and on-line services) that had text-to-speech support.

However, the TI99/4A's sales were lacklustre, and it was discontinued in early 1984.









British computer manufacturer Acorn originally targeted the engineering and laboratory markets, but moved into home computing with the Acorn Atom. The BBC, wishing to promote computer literacy by marketing its own branded computer system, visited Acorn after its previous contractor failed, and chose the "Proton", Acorn's in-development successor to the Atom.

Not all home computers stay at home. OSE ATOM POWER C V B N M S S SHIFT BLETE COM

Apple LOGO and its popular Turtle Graphics (a small subset of the LISP-based programming language that would be replicated in a number of other products) became popular with North American schools looking for an easier language than BASIC with which to teach students introductory computer skills.

FD 20 RT 10 would become familiar parlance for thousands of children as they designed intricate patterns on this "electronic spirograph". Paleotronic's microM8 emulator has a 3D Apple-compatible LOGO interpreter, with new commands UP and DN.

microM8 also features an Applesoft BASIC interpreter, with which you can play this Christmas carol

This computer would become the BBC Microcomputer System (known more simply as the BBC Micro.) The BBC would begin broadcasting television programming based around the BBC Micro in early 1982 encouraging British children to learn BASIC, (and British parents to buy the **BBC Micro!**)

Acorn would go on to release other computer systems, but none would be as popular or memorable as the BBC Micro.

I gift of the future...
from BYTE Books



## BXTE SHOP COMPUTERLAND

THE FIRST NOEL

by Ann Padley

This should be a very useful program to have standing by at this time of year. It will almost certainly drive your in-laws out of the house and will probably annoy carol singers greatly, as it goes much faster than they do. By halving all the values in data statements 400,401 and 402 you you can make it go very fast indeed. By selecting random 2-figure numbers for data statements 200, 201 and 202 you can make strange noises. Best of all, by adding a 'GOTO 500' statement at the end you can have continuous background music all through Christmas Day.

- POKE 768,173: POKE 769,48: POKE 770,192: POKE 771,136: POKE 772,208: POKE 773,5: POKE 77 4,206: POKE 775,81: POKE 776
- . 3:

  POKE 777,240: POKE 778,9: POKE 779,202: POKE 780,208: POKE 781,245: POKE 782,174: POKE 783,80: POKE 784,3: POKE 785,76:

  POKE 786,0: POKE 787,3: POKE 788,96:

  DIM 1(72)
- DIM D(72)
  - FOR L = 1 TO 72: READ T(L): NEXT
- DATA 101,112,128,112,101,95,83,75,67,64,67,75,83,75,67,64,83,95,1
- 01 DATA 101,112,128,112,101,95 ,83,75,67,64,67,75,83,75,67, 64,67,75,83,75,67,64,83,95,1
- O1
  DATA 101,112,128,112,101,95
  ,83,64,67,75,75,83,64,67,75,
  83,75,67,64,83,95,101
  FOR K = 1 TO 72: READ D(K): NEXT
- DATA 50,50,150,50,50,50,200 ,50,50,100,100,100,200,50,50 ,100,100,100,100,100,100 ,100,100,200
  - ,100,100,200 DATA 50,50,150,50,50,50,50,200 ,50,50,100,100,100,200,50,50 ,100,100,100,100,100,100,100 ,100,100,200 DATA 50,50,150,50,50,50,200 ,50,50,200,100,250,100,100,1 00,100,100,100,100,100,100,2
  - FOR L = 1 TO 72 POKE 848,T(L): POKE 849,D(L) : CALL 768

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For more information, call (800) 538-9696. In California, call (800) 662-9238. Or write: Apple Computer Inc. 20525 Mariani Avenue, Carpenino, CA 95014. Apple<sup>a</sup> Logo is a product of Logo Computer Systems, Inc., 222 Brunswick Boulevard, Point-Claire, Quebec, Canada H9RIA6.



number of things. Personally, I think more learning was done discovering what didn't work than what did! But the same could be said for poking around with BASIC...

## MORE POWER TO YOUR POCKET!



THE FX702P. A pocket computer that communicates in BASIC language. RRP £134.95

and held alphanumeric programmable – BASIC language – holds up to ten differ language—holds up to ten different programs simultaneously-subroutines nested up to ten levels—program looping up to eight levels—simplified program editing and debugging—variable programming capacity: between 1680 steps with 26 memories and 80 steps with 26 memories –55 single key routines including log, trig and hyperbolic—built-notutines included sandard deviation (both types), regression analysis and correlation coefficient—all programs and memory data retained even when switched off. Comprehensive library with over 70 program examples. Optional IA2 adaptor for program sorage on cassette and IP10 printer.

AVAILABLE AT SPECIALIST CASIO CALCULATOR OUTLETS. CASIO, WHAT WILLTHEY THINK OF NEXT? SHAIBURN HOUSE, 28 SCRUTTON STREET, LONDON EC2A 4TY. Speaking of which, Casio would release its own pocket computer; like the Tandy version it only had a one-line screen.







Thanks to you, pools to coming...

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