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#### APPLICATION

THE KNOWLEDGE We see how the robot's senses may be combined to give it a greater understanding of its environment

#### HARDWARE



OVER SIXTEEN The Commodore 16 is the successor to the Vic-20; we review this latest addition to the budget-priced range of home computers

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## SOFTWARE



BIG MACRO Lotus 1-2-3 is a heavyweight spreadsheet for the more expensive micros like the IBM PC and Apricot. However, its working principles will soon filter down to home micros

## COMPUTER SCIENCE



PERILOUS PURSUIT We continue to develop our adventure game in Logo by looking at movement between locations and the use of 'perils' such as poisonous snakes

## TARGON



IDENTIFICATION TO IMPULSE NOISE A weekly glossary of computing terms

## PROGRAMMING PROJECTS



STORY LINE We develop a utility that will format output to the screen in our two textbased adventure games for the popular micros

#### MACHINE CODE



BREAK EVEN POINT Now that our debugger program is almost complete, we can begin to develop the remaining breakpoint routines

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### WORKSHOP



SUM OF THE PARTS We revise all the ground that we have covered and publish appropriate circuit diagrams, before starting a new and ambitious project

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REFERENCE CARD We continue to list extracts from the Z80 programmers' reference card

INSIDE BACK COVER

## **Next Week**

. What the Spectrum really needs, or pure marketing hype? We examine Sinclair's improved Spectrum, the Spectrum+.

- . We review Starfinder, a package for the BBC Micro that puts the facilities of an observatory at your fingertips.
- . The quest for adventure continues in both our LOGO and BASIC programming series; we develop new facilities in each.



# QUIZ

- 1) What does 'upward compatible' mean?
- 2) What is a 'daisy-chain'?
- 3) What are 'keyboard macros'?
- 4) When might you need an INVENTORY?

#### Answers To Last Week's Quiz

- 1) The maximum weight that can be lifted by the servo motor when the pivot point is five centimetres is 700 grams.
- 2) To produce a mask of the PAPER affribute without disturbing the others, one would have to AND the cell with 201
- 3) The major problem in the storage of speech digitally is the enormous quantity of memory required for small amounts of
- 4) Holographic sheets are potentially useful in computing as mass storage devices

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