The great con game

Ivor Catt

The computer industry is the biggest money loser in history. General Electric lost around \$1,000,000,000 before giving up its computer manufacturing operation. Buyers of computers have also suffered heavily. TWA sued Burroughs for \$70,000,000 damages after buying their equipment.

The people in the industry have little idea how dishonest they are being, because even within the industry there is widespread ignorance about computers and their use. People in the industry take a pride in being ignorant about computers, and at computer conferences and in text books they are encouraged to remain so. Computer salesmen sell £100,000 machines, about which they are more or less ignorant, to customers who are even more ignorant. The customer buys a computer as a prestige symbol even though he may think he is buying it for its use, and when it fails to do the job he keeps quiet about its failure so as to keep the prestige.

When an irate customer complains to you, the manufacturer, about the rotten machine

you have delivered (or should I say partly delivered, as is more often the case), you have to keep him guessing for a year, until the guarantee runs out. The first, almost routine, step is to tell him you have serious doubts about the programming team he has put to work on the machine, but you will be very willing to belp by giving them some training, on his premises or yours.

When the two sets of programmers meet for the training ceremony, they can be relied on to fight (programmers are the cowboys of this age, used to shooting from the hip), and neither you nor your customer will be able to see much through the dust for six months or more. Finally a sort of compromise, or truce, comes, and either some of your programmers or some of your customer are fired as accepegoats. The programming is restarted; and after a further four months or so attention begins to move free the programming problems ("Surely all three programming teams couldn't have been incompetent!" to the hardware, which was mess from the start. A Wise computer manufacturer despite the odd query about the servicing engineers, offering training and so on. Servicing engineers are cowboys too, but of a piece physical kind. On a trip back from a sick computer in Durham with one of them, we averaged 70 mph for the first hour, 80 mph for the first hour, 80 mph for the last hour, in a Cortina. We also tail-gated a police car! The Durham computer was still sick, and I was in bad shape that evening. I haven't been back up there.

It has been noted that each computer servicing engineer seems to have a signature fault, finding the same fault on any machine he visits. This backbiting between servicing engineers, and between engineers and programmers, lasts well beyond the remaining months of the guarantee. Has anyone dared suggest that the computer itself is at

(Masphemy!)

competers is quite different from the use of socks or cardboard boxes; no one in the top echelons of company power, enmeshed in petty realpolitik, has a proper grasp of the complexities of the computer horrogog they have brought into their company.

The manufacturer of computers runs into the same problem. The energies of the top people are spent in what is called administration. No one in the industry is able to understand all the areas of differentially in their design, and the exercise in different fields such as sensition ductor or logic design have vision only along their own tunnels of expertise.

it's a lie that computers don't go wrong, that only programmers and operators make mistakes. Read about the 'glitch.' It's difficult to do this, because of what I call Religious Science. Scientific journals will generally only publish favourable news about science. A fundamental barrier like the glitch is suppressed or laughed off, in the same way as the Greek Pythagoreans kept it secret when they couldn't work out the square root of two.

A number of serious problems in computers are hushed up, and the editch is the most interesting of them, because when the computer goes wrong it leaves no indication of why it did. It just goes mad and you never find out why. Flanagan, editor of Scientific American, did publish something on the glitch in April. 1973, after six months of evasion, but he was clearly embarrassed about it and trivialised a very serious problem. This urge to ke off problems with computers while extolling their alleged succreas (which I find often crumble away of close scrutiny) runs

through all the scientific literature, and shows the 'Wizard of Oz' or 'Emperor has no clothes' underpinnings of our contempoprary computerised myths. Double think is pervasive in high technology. Talk to a computer scientist about a fundamental problem in computers and his eyes glaze ovver. You're not going to persuade a computer scientist that he has jumped on a loser instead of on to

the launching vehicle into the fu-

The number of computer engineered fiascos is legion, as we all know. The ultimate in absurdity was reached when, in 1971, a travel firm, Blue Cars and Blue Sky Air Holdings, found that by

doing away with their computer and relying once again on people to do the work, they could save £90,000 a year and work more efficiently with a staff of 80 instead of 130. However, a conservative public needs to have its imagination stirred by the exciting pos-

sibilities of progress, or they will not supply the necessary funds. It is therefore essential to stimulate public interest in computers and their potential, and so the communication media are harnessed to the cause.

Since the whole subject of

computers, science and technology is highly complex, some simplication of the subject is necessary when it is expounded to awed journalists, who add their editorial touch before they carry their message to the public. This is the way myth has developed in the computer industry. Journalists would get a surprise if they were to examine the world of the computercrats, a shoddy, dishonest world with many confidence tricksters. As one computer salesman said to me after selling (and taking money for) a non-existent computer, "Do you ever get to think you're part of a great big con game?"

Ivor Catt, a Cambridge engineer, has fifteen years' experience of the computer industry in Britain and the US. He left the industry to write and lecture, his second book Worship Computer ~ published this month by Pitman (£1.80). He has recently patented an invention which could reshape the computer of the future, and which has the financial support of three government departments. This is the first of a series of articles he is writing for The Spectator.