

Contents! For that same \$10 million, ISI could process over 2 million articles per year and deliver to every research library printed indexes updated daily, if necessary, a "real-time" IR service.

A powerful argument in favor of some "experimental" government-subsidized enterprises is the need to educate users. Eventually the individual user will be expected to pay for the newer technologies. One by-product of these experiments is greater information consciousness. New "traditional" (sic!) tools like CC®'s *Weekly Subject Indexes* become more dramatic when a brief search is completed even before one can dial up the computer.

In applications like airline reservations heavy traffic for a small data file justifies the high storage costs. But with government subsidy to stimulate heavy traffic it remains to be seen whether scientists and librarians are able or ready to pay the full price of such services. For the small number who are, let them do so in full recognition that it is not the computer that has made the information instantaneously available but rather the proper design of a quick response system.

In order to improve the timeliness of *Science Citation Indexes*®, ISI has recently implemented an interesting experiment in the United Kingdom. *SCISEARCH*™ provides "instant" access to 30,000 articles most recently processed for the *SCI*®. To conduct a search, one simply telephones the computer and enters his retrieval terms through an acoustically coupled teletypewriter which also prints out the list of retrieved articles.

SCISEARCH is not yet a real-time system. Nor is response time really instantaneous. This depends upon question complexity and other factors. In systems like missile guidance, real-time access is necessary for instant correction of any deviation from a prescribed course. For scientific information real-time response is absurd, especially if one considers the time-lapse in publication of papers.

But rapid response is often desirable. Frequently, if the answer to a speculative question or conjecture isn't immediately available, the "idle" question is dropped. An immediate answer might justify further thought, but with significant delay one forgets the reason for the question.

Recognizing that instant response is rarely necessary and that the completely impersonal nature of computer systems can be both annoying and expensive, ISI is also experimenting in Philadelphia with a variant of *SCISEARCH*. Designed for scientists and librarians who aren't ready—mentally or financially—for the servo-mechanistic responsiveness of missile guidance, we've retained some human intermediaries.

For *SCISEARCH* in Philadelphia you won't have to learn a computer language. When you dial us a live human voice will respond. You state your question and the information scientist who answers will provide the answer from a completely up-to-date base quicker than 99% of the most advanced time-shared computer installations can deliver it. Depending upon how rapidly you actually need the information, a surprising volume of data can be transmitted to you either by telephone, which you can store on a tape recorder, or, if you have a teletype console the information scientist will print-out the answer for you "instantaneously". If you prefer, of course, we can simply place the information in the mail. After all—it's your telephone bill.

I admit to some ambivalence on these questions. My engineering instincts always caution me to be leery of complex and costly systems. My marketing instincts tell me to be prepared for what the customer wants—not what I think he ought to want. In most cases, the demand for "instant access" represents a curious machinomorphic in contrast to our usual anthropomorphic conceptions. It is a rare scientist who can or wants to react in nanoseconds to some piece of information. As the hip dialect puts it: Are you ready for this?