
Representatives attending from three market research firms contributed data on U.S. and overseas computer shipments, installed base, and revenues of U.S. computer firms. The market research firm participants were James Peacock, director of publications, International Data Corp.; Robert E. Wallace, vice president, Commercial Industrial Division, Auerbach Associates, Inc.; and Frederic G. Withington, senior staff member, Arthur D. Little, Inc.


Gross value of U.S. firms’ general-purpose computer systems shipments overseas was estimated at $5.3 billion in 1976. The U.S. installed base for general-purpose computer systems overseas is estimated at $30 billion for 1976; $51 billion in U.S. installed base for general-purpose computer systems overseas is forecast for 1981.

U.S. and overseas totals for annual revenues of U.S. computer firms are estimated at $31.86 billion; $64 billion is the forecast for total U.S. and overseas revenues in 1981. U.S. computer firms are defined as firms which are 51 percent or more U.S.-owned. 1981 forecasts are expressed in 1976 dollars.

Other workshop participants included Bruce Gilchrist, director of computing activities, Columbia University, and editor (with Richard E. Weber), *The State of the Computer Industry in the United States*; Martha M. Gray, computer specialist, Computer Information Section, Technology Division, Institute for Computer Sciences and Technology, National Bureau of Standards; Madeline M. Henderson, chief, Computer Information Section, Technology Division, ICST, NBS; and Saul Padwo, director, Science and Electronics Division, Office of Business Research and Analysis, Domestic and International Business Administration, U.S. Department of Commerce. The workshop was organized and moderated by Pender M. McCarter, research associate, Washington Office.

**IEEE supports legislation to prevent “wage busting”**

Senator Lawton Chiles of Florida introduced an amendment to the Service Contract Act of 1965 to protect engineers working on service contracts from the practice of “wage busting.” Senator Dick Stone, also of Florida, and Senator John Sparkman of Alabama are co-sponsors.

The legislation would forbid technical support service firms with government contracts from paying professional employees less in salary and fringe benefits than they were paid by the previous contractor, if they are performing the same service. Further, it would provide for the use of a national survey in determining the rate of pay of professionals working on such contracts.

Blue and white collar workers received similar protection under the original 1965 legislation.

Introduction of S969 on March 10, 1977, culminated a week of intensive activity by 60 IEEE members to obtain an identical Senate companion to H.R. 314, the House bill introduced on January 4, 1977, by Congressmen Frank Thompson, Jr., of New Jersey and James Corman of California.

**CBEMA calls for continued FCC supremacy in telecommunications matters**

Testifying before the Senate Committee on Commerce, Science and Transportation, Subcommittee on Communications, CBEMA President Peter F. McCloskey called for "a continuation of the existing national policy permitting the competitive equipment marketplace to thrive, remain strong, and continue to help meet the needs of the public."

McCloskey spoke on behalf of the Computer and Business Equipment Manufacturers Association, which represents nearly one million jobs and over $35 billion in annual revenues. He stated that if the subcommittee is to "reaffirm" the original intention of Congress when it created the FCC in 1934 to establish a uniform interstate policy regarding communications, that it "reaffirm" its confidence in an economic doctrine of free and fair competition.

In his summary, McCloskey made four statements which were supported by a comprehensive appendix to his presentation:

- It has been suggested by some that current policies in the terminal equipment field may threaten the technical integrity of the telephone network. They won't.
- It has been suggested that present policies in the terminal equipment field will drive up residential telephone rates. They won't.
- It has been suggested that this committee should put aside the FCC judgments, based on extensive formal and informal proceedings over the past decade. It shouldn't.
- It has been suggested that current national policies permitting a vigorous competitive marketplace have served the public well and should be continued. They have and they should.
Oregon State University has a visiting faculty position open for one academic year at the Assistant Professor level starting in September 1977. Requires Ph.D. in Computer Science or related field with preference given to specialty areas of operating systems; data base management; software engineering. Send complete resume to: C. R. Cook, Chairman, Faculty Search Committee, Department of Computer Science, Oregon State University, Corvallis, Oregon 97331. Please arrange for two qualified references on technical competence. Oregon State University is an Affirmative Action/Equal Opportunity Employer.

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Computer Science: The School of Engineering, Oakland University, seeks applicants for position of Assistant Professor, to begin August, 1977. Duties include teaching and research in computer and information science. Ph.D. required. Preferred areas include microcomputers, networks, and systems software, but all strong applicants will be considered. Send resumes and names of references to Howard R. Witt, Acting Dean, School of Engineering, Oakland University, Rochester, Michigan 48063. An equal opportunity, affirmative action employer.

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16th Lake Arrowhead Workshop issues call for participation

If you are now working in the areas of network protocol, network interconnection, distributed database methodology, or distributed data base implementation, you are invited to apply for participation in the Computer Society's 1977 Lake Arrowhead Workshop, scheduled for August 31-September 2 at the UCLA Conference Center, Lake Arrowhead, CA. Contact Prof. Wes Chu, program chairman, at the Dept. of Computer Science, UCLA, Los Angeles, CA 90024, for further information.

Computers in Cardiology seeks papers for Rotterdam meeting

The Fourth International Conference on Computers in Cardiology to be held September 29-October 1, 1977, in Rotterdam, The Netherlands, will continue to emphasize the engineering aspects of clinically useful systems in the field of cardiology. In the call for papers, the conference is placing particular emphasis this year on four topics: information systems in cardiology, diagnostic ECG programs, automation in intensive care, and computer-aided interpretation of nuclear scans and echocardiograms. Abstracts of not more than 500 words should be submitted by June 1, 1977, to Cees Zeelenberg, Thoraxcentrum, Erasmus University, P.O. Box 1738, Rotterdam, The Netherlands.

Again this year, U.S. participants are being offered a tour package that includes air fare from New York City, hotels, baggage handling, transfers, and sightseeing during a week's stay in The Netherlands. Savings over regular fares will be substantial, and families, relatives, and friends can join the group.

For further information on the conference or the tour, contact the conference chairman, Dr. Jerome Cox, Department of Computer Science, Box 1045, Washington University, St. Louis, MO 63130.
Ethics, social implications of computer technology subject of SRI workshop

Suppose a gun-like computer device could identify a person from his brain-wave patterns without his knowledge. Would the inventor be morally responsible for the social implications of the device?

This was one of 62 hypothetical scenarios studied at a three-day workshop of computer experts, lawyers, and ethic philosophers at Stanford Research Institute March 7-9. According to workshop leader Donn Parker of SRI, the scenarios dealt with ethical issues that confront an individual in his work with computers. Parker, who drafted 32 of the cases, stated that many were based on actual experiences obtained by interviewing individuals who had been convicted of computer crime.

In a typical case, a systems analyst was asked by his employer to develop a computer application that would replace as many production workers as possible in a customer’s factory. The analyst’s brother-in-law was one of the workers who would be replaced. The brother-in-law convinced the systems analyst that the workers would be laid off and that the employer would give them no assistance in finding new jobs. In keeping with the contract objectives, the analyst continued his design work to maximize the number of production workers that could be replaced.

Parker said that workshop results will be reported during the 1977 National Computer Conference in June and at a meeting of the International Federation for Information Processing in Toronto in August. The AFIPS Press will publish a report based on the material, probably in June.

Donn Parker, SRI workshop leader, said this first national meeting of its kind dealt exclusively with ethical issues either unique to the computer field or important because of their pervasiveness throughout the field.

ANSI developing network control standards

The Technical Committee for Data Communications of the American National Standards Institute (ANSI X3S3) is developing a family of message heading standards to establish (1) heading format structures, (2) protocol to establish standard procedures for the interpretation of the heading formats, and (3) classes of protocols for code independent network control. The work will be carried out by the Task Group III on Data Communication Formats.

Because the resulting family of standards will have a significant impact upon the users and the suppliers of network services, ANSI encourages interested parties to join the task group in their work. Interested persons should contact the task group chairman, W. F. Emmons, IBM Corporation, Systems Communications Division, Box 12195, Research Triangle Park, North Carolina 27709, telephone: (919) 549-6274.

Honor Roll awardee overlooked

Last month’s photo coverage of the Computer Society Honor Roll awards given at Compcon 77 Spring (see April Computer, p. 106) failed to mention one of those honored: A. J. Kolk of Alkem received an Honor Roll award for his past leadership activities in the society’s Western Area Committee. During his long period of service, Kolk has served as chairman of the Western Area Committee and has supported the Arrowhead Workshop in various capacities including program chairman and general chairman. Sorry, Tony.