the use of prototype tools and methods. The second level will be tutorials on specific topics, while the third will offer semester courses leading to the masters degree in software engineering. The institute plans to work with the Wang Institute and universities that have explored this area, involving them in the design of the curriculum.

Institute relationships. Each of the four divisions will be led by an associate director. Above the divisions are three officers: the director, chief scientist, and DoD control officer. These seven make up a review board responsible for the selection of topics and projects. The institute will build up to about 80 staff members in 1985 and to about 250 within five years.

The institute director reports to the university provost, giving it the same academic status as other institutes of the university. A board of visitors, drawn from industry, other universities, and DoD, will advise the director. In addition, DoD is setting up an advisory group with members drawn from the three services. An executive committee

The institute's primary function is to advance defense software engineering.

of this group, composed of technical and administrative personnel, is the focal point for DoD relationships with the institute. Officially, the institute is the responsibility of a vice commander of the Air Force.

Entirely financed by DoD, the institute's primary function is to advance the defense community's software engineering capabilities. To serve other communities, Habermann added, the institute proposes to establish two affiliates programs, one for academia and one for industry. Affiliates may send someone to interact with an institute program on a regular basis. Affiliates may carry on parallel development, though not on contract with the institute.

Habermann hopes that affiliates will in some instances carry on development of a project beyond the prototype stage. They will be free to market the resulting product on commercial terms.

Academic publication. The institute's research and development work will be in the public domain and its results published, Habermann said, responding to a question from the floor. The institute will give DoD copies of papers 30 days in advance of publication, not so much for security reasons as for patent purposes, he said. Since many defense application programs are classified, the institute's transition personnel, who will be working with these programs, will require security clearances. The transition teams will screen out classified information so that the projects at the institute itself can be nonclassified.

DEC gives $330,000 for editing software project

With a $330,000 grant from Digital Equipment Corp., the University of Pittsburgh will develop programs to teach writers to locate and correct mistakes in their compositions. The university's English Department will use the funds to buy a VAX 11/750 minicomputer, 12 DEC Professional 350 microcomputers, an Ethernet local area network, and a text-to-speech system.

A team of experts in computing, linguistics, and artificial intelligence is researching human language processing so it can then develop computer programs to help students learn basic writing and editing skills. The researchers hope to write a parsing program on the VAX that can deal with syntactically incorrect sentences. The parser must not only detect errors but also help students learn to correct those mistakes.

The university expects the research to be useful for computer-assisted instruction in many fields, not only in languages, said Mary Louise Briscoe, chairperson of the English Department.

Publications describe vertical market, decision support

A new study, The Vertical Market Reference Book, examines 75 industry sectors and details the levels of computer automation in each. The survey shows several marketing opportunities for vendors of information-processing products and services. For more information, contact the Market Information Center, 100 Pennsylvania Ave., Ste. 350, Framingham, MA 01701; (617) 879-2273.

A new journal, Decision Support Systems, monitors ongoing research in decision support, with the aim of bridging the gap between computer science and management science. The journal draws from a range of disciplines, including operations research, management science, computer science, cognitive psychology, and organizational behavior. For more information, contact North-Holland, c/o Elsevier Publishing Co., PO Box 1663, Grand Central Station, New York, NY 10163.

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