# Demise of Software Company Marks End of Era

By Ruelyn McDoneld Special to GCN

SAN FRANCISCO - Computer Usage Co. said it ceased operations because it didn't get sufficient funding to implement a previously announced bunkruptcy-law re-organization plan. [The Wall Street Jour-nal, Sept. 39, 1996.]

may, 2000. 29, 2000. This short news item marked the end, after many months of struggle, of a company that began in 1956. Companies so under every day, but Computer Uses Co. was one of the first. if not the first, computer software companies in the United States, and it counted among it is accomplishments some landmark programming.

The Washington office, in existence for about 20 years, numbers among its alumnisona leaders in government computer circles, a couple of millionaires, an author of science fiction books and many others onto. The description might fit any of a dozen companies that flourished in the 1960s in Washington. Yet, in zerms of persongitities and accomplishments, CUC on washington. Yet, in terms of palities and accomplishments, CUC ifferent.

personations are made and made and made and made and made and the company, you need to remember that it was a child of its times. There were no computer science programs. These were no computer science programs. Computer bardware was moving from vacuum tubes to transistors. There were no data base management and few compilers: the certic user-feiendly was years away from meaning anything. In this environment. CUC came to the forefront as a first-class software downly specific promet company where technical scaff amuseed a series of extraordinary credits.

#### The Impossible by Accident

Its early history was one of doing the seemingly impossible almost by accident. People achieved incredible things because the different distributions and the seeming the seem

they didn't know their murassons.

How many people inday would say you could write an econometric modeling program in assembly language in two months? Bill Kingsley, now an account representative with Avent Garde, remembers doing just that. Kingsley came to CUC with no experience except that of running an entire cast file by leading it in the wrong bopper and gangunching it. Kingsley couldn't imagine he'd be bird. When he was, be found himself thrown into all sorts of situation. The amounts this respect to the primer and the second size of the second siz m in assembly language in two months?

1 Kingsley, now an account represenminuses to be the state of the

Allen Taylor, now manager of systems programming at the American Red Cross, remembers getting into the branch ramager's as in Betheeds. Md. The manager tossed a Horeywell 200 manual in the back sent and saic, "Bectme an expert before we get to National Airport." Vioki Taylor, another alumnus, commented recently, "You learned that you had the ability to edapt. You had no choice; they hended you the manual and said. Be an expert."

Not all memories of this time were pleasured that memories of this time were pleasured.

manual and said. The an expert. "
Not all memortes of this time were pleasant. One alternous said: "I have never been
turown into so many sink-on-swim situations it my life. My only problent was not
knowing which one I was doing."
Bob Gibbert, who today is director of administrative services at the Federal HomeLean Bank Reard, said he never worked so
hard or gave up so swich of his personal tite
for a job. "But," he said, "I was given a
chance I don't believe I would have gotten
signature."

Finding Programmers

There was no method for determining what type of person would make a good programmen. There were no university proprogrammen. There were no university programs to assore applicants laves programming, in the absence of that type of validation, CLC and many of its contemporate used aptitude tests to qualify applicants. These tests were dosigned to determine whether a person could think logically and work through problems. The company was looking for a habit of mind not a level of education. This led to biring some unusual and interniting rescales.

education. This led to hiring some unusual and interacting people. Helen McEwen, now a director of special projects at the General Services Administration, was one of those who took the aptitude test. She welled in, as she says, "straight from the kitchen," She told CUC she had been a housewife for 17 years, but the thought she could learn to program. She got a perfect score on the aptitude test and then had to interview with half the compary's executives because they were auxious about her lack of background. She remembers being hired at \$50 or week. She went to hers being hired at \$50 a week. She went to a cocktail party the week she was hired and was asker, how much she was making. "Compared to yesterlay," she asked, "or compared to you?"

### Personalities

Among the staff there were majors in lan-guage, music, history, mathematics, phys-ics and even horticulture. The company was looking for people who knew how to

think, on the theory that these people could learn how to do anything. Naturally, this orientation resulted in employees who were not precisely an organizational drawn. Personalities were, to say the least, diverse. One senior analyst were the same green wool vest every day, that is, until he showed up one Monday morning in a turked. His explanation? The tur was mutted until Monday night. George Trimble, a frequent contributor of software programming techniques, work on whether it was summer or winter) and a flower in his lapsel. He carried a silvertipped cane and draws to work either in a Cadillac or on a motacrycle.

adillac or on a motorcycle. Then there was the programmer who Then there was the programmer wro same to work on a streeger when the com-pany had offices on Connecticut Avenue. Don dressed well, loved to program and never seemed to want to be promoted. He attracted little notice until his name apattracted little notice until his tame ap-cented in the newspaper as the grandson of reatthy publisher Welter Amenberg. Don one making more in interest from trust funds than most of us would make in a life-time. He worked simply because he enjoyed it Rumor has the retried to Plorida and is writing programs for microcomputers. No discussion about the Washington branch of the company would be complete without mentioning its breach manager during the sarly 1960s. Joe Vierra. Joe, now an account manager with one of CCC's

durbs the sarly 1909a. Joe Vierra. Joe now an account manager with one of CUC's more successful alumni, Fadi Sturbutzel, was "the quintessential salestmon." It was through Joe that I learned the salestman's key asset; being able to read a memo upside down on someome's desk while carrying on a conversation with the person. Vierra usually managed with a light hand. However, carrelines he did not on crusades with uncomplications. sometimes he did get on crusades, with un-predictable results.

predictable results.

At one point, he decided that the staff was taking too long at lunch and decreed that everyone had to lag out when he went to lunch and log in when he came back. About that time, the company was opening a Philadelphia office. One of the analysts Jine sent up there called him collect to will bim that the weak going to lunch and that she would call him when she got back. That ended hunch log.

she would call firm when she got oack. I not ended lunch log.

Viern strenged one key philosophy that most of the alumni remember: Do a good job, stick to budget and keep the customer happy no matter what. When you could do that, you could do anything. Much of the work the Washington branch got came

erbatim

from Vierre's careful nuturing of clients. Joe was quick to praise and to blame, but you had the chance to innovate, to succeed or fail on your own terms, and you always knew where you stood.

#### Unwitting Pioneers

Unwitting Pioneers

A good company is often a combination of the right people and the right opportunities. CUC had an extraordinary set of people, and when the opportunities come, they did good work. Rhoda Monchet, essociate director of information resources management for the Department of the Navy, recently pulled out a copy of an aid resume to fullustrate the variety of projects ahe worked on. They included mapping the earthy magnetic field, moving opopulations acround for a sophisticated war games project, doing catgo allocation with linear programming bechains and temporary compulers from computer to computer. "We were pioneering in structured programming out, of neuroscience in the structured programming out, of n

computer to computer. "We were pioneering in structured programming out of nessit," she said, "and so didn't know it."

In those days before virtual memors, storage requirements were always a problem. It was like "Name That Tune"—it you could do it in five lines ricode, cry titi four, and so on. Mancher also noted that much debugging was done at the consoler that computer you mun the proterm until it hing up, did a dump, found the problem and spieced instructions into memory in binary form. She still remembers beling alienated who she went into a computer shop where programmers were denied access to the computer.

Arong CUC's projects were one of the first digital sireraft simulators, signature first digital aircraft simulators, signature analysis of infrared emissions, luner gerdosy on the Lunar Orbiter, automizacing to Bellcomm on the Apollo project, a traly user-friendly library system and much of the early work for IBM Cura, on the Systemy, 1860. CUC was involved in IBM Cura, to the Systemy, 1860. CUC was involved in IBM Cura, and 3800. AUTODIN support. CUC's New Red 3800. AUTODIN support. CUC's New York of the Programment Systems and 3800. AUTODIN support. CUC's New York of the Programment Systems and Systems an York office put in so much time on that machine that the employees wrote one of the first computer programming books.

Programming the IBM 360. Typifying the company's attitude, the author appeared as the "technical staff of Computer Usage

#### Deadlines

The company did on interesting conversion project to bring the IBM COBOL costneller up to Air Ferce Phase I apectications for a benchmark. CUC agreed to complete the work in 90 days or else IBM would pay to fee. The conversion went down to the write. Finally, one persistent bug remained. with Finally, one persistent hig remained. An instruction was getting wiped out at some point during the execution. Being ander pressure and out of answers, the sudfern a patch in the compiler that tested for the error coordition. As soon as the curdition was found, the patch restored the instruction to its criginal state. The problem have came up twice, and the staff reassned that, if IBM won the benchmark, they could fix the problem later.

CUC had the first commercial IBM 360 in the Washington area and sold time to

CUC had the first commercial IBM 360 in the Washington area and sold time to other companies for testing software. The system had problems at first and users were unable to get things done. Jeen Jee Vierra called IBM in to fix the system. When that was done, Vierna warried about his restricted confidence, so be told the IBM saiesman that he wanted a replacement 360. He caltimetes would blame the system for anything that were twenty. After some After leading the caltimeter would blame the system for anything that were twenty. tomers would blame the system for any-thing that went wrong. After some deliberation, they came to an experience. They changed the color panels on the com-puter, and it was business as usual. Despite the quality of the company's work. It never became a major force in the industry. CUC executives were refurning to

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ntimed from previous page into large system contracts and the low-copin husiness that made so many of their macticos successful. Few things illustic this ntitude botter than the comparis response to Honeywell on the PACT impiler. CUC was doing work for recycled on its PORTRAN compiler and on was saked to do the implementation of ACT. The cammany refused on the rounds that it did not have enough comparing the people.

nt people. At that point, the soutlight shifted to two At that point, the sputlight shifted to two misses in marketing and building compaies. — Fletcher Jones and Roy Mutt. sanders of Computer Sciences Corn. They all Honeywell that CSC could do FACT, leach they actually had the same people roblem as CLIC. Honeywell gave Jones of Nutt the job, and CSC hired the people fones was said to observe that CUC seally not Computer Sciences in business. Even though CUC was the first major force in the softwate field, the power to suain that there was missing. Many reasons have been given, but the onto was certainly on manogenent. Several ex-tillad executives took over the company. These mevers good in the BM environment but had little experience in the sprice business.

were good in the 15M environment.

Hitle experience in the service business.
They were used to an environment where IBM's name alone opened doors, in CUC's business, personal contact, kept customer

business, possess, a curious lack of foreight shout where the industry was going and a lack of strong direction. Like a lot of the early compenies, CUC promised good technical people into management jobs and never trained them. One staff member said never trained them. One staff member said the management processors about technical programs knew more about technical programs. he felt the company knew more about technical details than running a business. Another said CUC was the proving ground for the Perse Paincielle.

the Perc Principle.

Most of the alumni agree that they never found another environment like CUC. They speak with pride of the chollenge, the feeling of achieving smeathing great and of the independence. "It was the breeding

#### Survey from page 26

Survey from page 26 programs or developing data bases, tasks that should have been done in coordination with the ADP and to other users, avoiding duplication and unreasonable limitations. Some were just plain inefficient or incompatent on the devices, and some were playing around By the same token. I know or mirror users who may use their devices less than one hour per week and have paid for them if times over through increased productivity or increased appealablics.

Surveys that are limited to compiling information about the amount of use of equipment not only do not provide the information that is really needed for accision-making, but they also give the this impression that this is the only kind of data needed to determine the value of the equipment.

I have we will see work on developing

I hope we will see work on developing measures of productivity and performance improvement to determine the red value of impresement to determine the rety value or microcomputer opplications to organiza-tion and to provide some reteric criteria that could be used to predict the kenefit of the derived through installation of micro-computers. This would be a great benefit to the penplo responsible for making decision about the scaplisition and ellocation of

Gerald D. Paulson Pairfax, Va.

## Survive the Computer Invasion

ground for programmers and analysts—though none of vs realized t at the time," Mancher said. "I did more work on a greater variety of projects there than I did analysis."

#### Good Experience

Good Experience

Pat Guedes, director of GSA's Automated internal information Divisions, said be learned that the most important thing in thiring people was whether they could get the job done. He would rollerate addition in people if they were good at progromming. McEwen surmed up her experience by saying. "It put me in good stead for the rest of my iffe." To Bob Gilbert, the success he had at CUC was something he took with intendiction that the little things you do in a service more more more more more more problems with touwent tount -- tecopoint broplems with

that extra five minutes keeps customers."
For my part, I was a member of the technical staff of CUE for seven, years. I programmed everything from inventory control systems on operating system software, including learing aper integration rootines from mitt determination programs when my only definition for integration was accial and not mathematical. During my seem there, I west from programmer analyst to technical director.

Computer Usage taught, me bow to be a professional and never put limits on me. The real problem was the things the company did not teach me—that professionalism is not always researching or rewarded and that the world will put limits on you even if you don't put them on yourself.

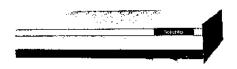
Most of the Washington alumni are still

in the computer field and have done well. While there is some sadness for the company and its fate, most are pieceed to have taken part in socrething pretty sool. If you were there and survived, it says somethics shout your abilities. As one alumni soid, "CUC may not go down in the textbooks next to Eccert and Mauchley standing by ENIAC, but it represented on ere in conjucting that was a lot of fan to be in."

The next anised reution inneheen, traditionally held near Christians at an italian restaurant across the street from CUC's former infices in Betheade, will also be a wake.

Evelyn McDonold is marketing director of the U.S. Professional Development Institute. Silver Spring, Md.

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