

*Jerry,*

*I thought you might  
like to see this  
before I distribute it  
to FCC-MCO.*

To: Prof. F. J. Corbat  
Prof. M. L. Dertouzos  
Prof. J. H. Saltzer

From: K. T. Pogram

*Ken*

Subject: Reaction of an outside-MIT Multics user to the possibility of IPC taking a "marketing" approach to Multics.

Date: 3 April 1975

As you may know, the Center for Advanced Computation at the University of Illinois has been a substantial user of Multics service at MIT for several years. I have come to know quite well Professor Peter Alsberg, who has been the "prime mover" there as far as encouraging Multics use is concerned. Pete has become quite disenchanted, with the apparent turns for the worse that Multics service has taken. After Jerry Saltzer mentioned at a CSR staff meeting that IPC might be encouraged to take a "marketing" approach to develop new customers for Multics which could result in a price decrease, I took the liberty of mentioning this to Pete. Pete's reaction was prompt, detailed, and enthusiastic. He has given me permission to distribute his comments.

One problem in using the material Pete has provided is that his credibility at IPC is somewhat strained at the moment. Pete obtained a "quantity discount" from Wes Burner two years ago, predicated upon his group's obtaining a particular research contract. His group didn't get the contract, the contracts they did get did not generate the same volume of usage, and (I believe) Pete did not use the quantity of Multics resources he had contracted for.

However, the projects he describes in the attached memo are projects stimulated by his group, but not totally performed by his group. They represent, I believe, the sorts of projects which could be attracted to Multics, if Multics service at MIT could be made sufficiently attractive. In this spirit, then, I present Pete Alsberg's comments.

Origin: Network host mit-Multics 04/01/75 1057.2 edt  
From: Alsberg.Dileptus at MIT-Multics  
Date: 04/01/75 1057-edt  
Subject: Multics marketing

Ken,

Boy O Boy but do I dig the rumor. I think my project would be willing to take a 50K chunk. Actually there is substantial usage from this campus other than directly from CAC projects. This was growing until the last price increase. Since then, I have noticed a sharp reduction in Multics expenditures and all of the new users we so carefully cultivated are cutting back and some have completely eliminated Multics funding. In contrast, if rates had been slightly reduced and memory added (memory units represent over half of all charges and CPU about 20-25%), I think the curve would have taken a steeper uphill course. Examples:

1. Manny Donchin paid to have us build him special network software to let him couple CCN number crunching with Consistent System data management. His Multics expenditures jumped up (I know of \$12K he spent of our money before he went production!). Right after the price rise, he cut his Multics to zero and went straight CCN (with some BBN based TENEXing). That cost you dearly because his usage was going nowhere but up and to substantial levels.
2. We had shifted NIPC (our IRIS user) to a combination of UCSD and Multics. Their usage was also growing (but only at the small tens of \$K level) until the price rise. Now it is dropping and may have gone to zero.
3. We put the Corps of Engineers Research Lab up on Multics. They built a whole space planning system in PL/1. It is now operational. Their usage was substantial but they work within a fixed computer budget. The current price structure is forcing them off the machine. I was out there a week and a half ago for a demo of the system to a CINCPAC guy who wants to use it on Multics over the net (he is already on the net). Unfortunately, they have (CERL that is) decided to reprogram the system in FORTRAN so they can have a chance to shift it off of Multics. But they aren't gone yet and they represent a real marketing multiplier (they bring in the CINCPAC's, etc. who want to use their packages).
4. We have a whole slew of CAC projects for the state that we had planned to do on Multics but are now shifting to our own UNIX machine because of Multics costs. Some of these were already partially up on Multics when the price rise came and now they are all off or in the process of getting off (e.g., the Dept. of Public Aid training project was started on Multics but we are in the process of shifting it off).

5. There are also University users at the Dept. of Physics, the Center for Adv. Study, the Dept of Comp. Sci., the Lab. for Atmos. Sci., etc.

The problem is NOT that a 25% increase in CPU charges by itself hurts so much (for most users it only look like a 4-5% price rise overall). It is, however, the straw that has broken the camel's back for several users. Combined with a cutback in service of the only cheap shifts it is a killer. It is the lack of cheap shifts, for example, that is forcing many of the CAC projects off. The less well funded ones cannot afford to develop their systems at Shift 1 and Shift 2 rates. On top of this, the limited availability of Multics makes it look primarily like a Monday-to-Friday 8 to 5 machine to us. For example, I am tired of getting kicked off the machine at 10:30 PM local time just when I am about to get something done and 9:00 AM to 4:30 PM on weekends is a hard time to hit. So I have just given up Shift 2 and Shift 4 usage because it is too frequently inconvenient to use. I find myself thinking more and more that prime shift is the only time I can count on continuous Multics access and I tend not to think of coming back to work at nights or on weekends.

The upshot is that the price rise in an already marginally affordable machine loses users. The lack of a cheap shift kills experimentation and lops off a whole less well funded user community because they can't afford to build their software anymore, and the limited Multics hours flies in the face of the 24-hour computer utility concept. The result is a very anti-marketing, anti-production user appearance to the outside world. Quite frankly, I can't think of a better way to kill Multics. But then, perhaps that is the intention of IPC administration.

Pete