

cumulation and output of information. Then it also seems to me that we have to be concerned with building safeguards into the programs that are going to be involved in the use of the computers. Likewise, I feel we have to be concerned about the application of the system and the programs in the Federal Government or outside the Federal Government and build in safeguards in those areas.

Now, it seems to me that we haven't had very much information in any one of these areas until this subcommittee became interested in it, but I think you have indicated, Mr. Packard and others have indicated who have testified before us, that it is a very complex problem and that there isn't any safeguard at the present time in any one of these areas that will protect this interest that we are concerned about.

Mr. SQUIRES. There is some activity in the sense that people building time-sharing computers—particularly at MIT, for example—have developed systems whereby presumably a given user may not have access to another user's files. However, there are also other people in the field who claim that there hasn't been built a system that they can't break, so it is pretty primitive at the present time.

Mr. HORTON. In Mr. Macy's article in the Saturday Review of July 23, 1966, he makes reference to an integrated system and how this can be beneficial to the selection of personnel to fill jobs. He indicates some of this system has already been used in presenting candidates or prospective people to fill jobs at the Presidential appointment level. He also talked about direct tape-to-tape feeding of data from one department to another. It points out that this may become common.

I assume from what you have said and from what other witnesses have said that this is a possibility and in all probability is now in existence.

We also heard from the Government witnesses yesterday an indication that they would not furnish this intelligence information to various departments of Government, but I assume from what you and Mr. Baran said that it is possible to set up the system this way and possibly it is already set up this way.

Do you have any suggestion as to how, programwise, the Congress can deal with the restrictions on the use of this type of information from a central body of information to the various agencies?

Mr. SQUIRES. No, I don't, really. I read Mr. Macy's article on the plane, and read the quotation you just made and even made a copy because I was somewhat impressed by it. The idea of these existing channels is to me somewhat frightening. I can appreciate the problems that people running these systems have and I certainly appreciate their concern as a citizen that intelligence data will not be transmitted on these channels.

On the other hand, I do not see any visible means to prevent such transmission should the parties controlling the machines at any level decide to put such transmission into effect.

Mr. HORTON. It is a complex system that has already been built up to a large measure. I guess you would agree with that, would you not?

Mr. SQUIRES. Yes, sir.