The following paper, "Using Type-Extension to Organize Virtual-Memory Mechanisms," written by Philippe Janson in 1977, describes work done in our laboratory between 1974 and 1976. The paper is belatedly published here following an unusual and unfortunate series of events. It was submitted to the Operating Systems Department of CACM in August, 1977. Nothing was heard from CACM, despite 11 letters of inquiry and many phone calls, until March, 1981, when a new Operating Systems editor finally located a file on the paper.

The new editor, after reviewing two 1977 referee's reports and soliciting two new ones, invited the author to rewrite and resubmit the paper to CACM, but he declined this offer for two reasons. First, in the interim his interests have changed; he is now working for a different employer in a different field of research. Second, by now the main theme of the paper, the use of abstract data types as an organizing technique for operating systems, has been discussed by other workers in the field, so the major effort to rewrite the paper did not seem to him worth the time and effort.

At the same time, the paper contains a set of observations, examples, and design considerations for a concrete operating system that have not been published elsewhere. For this reason we, as supervisors of the work, together with other colleagues, have encouraged the author to make it available for reference within the audience most likely to have an interest, SIGOPS. The paper is unchanged from its originally submitted form. An addendum referring to later but closely connected publications and responding to some of the comments of the referees is appended.

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