

Fairchild Completes Delivery of ILLIAC IV Memory System



Fairchild has completed delivery to the Burroughs Corporation of the main memory system for what has been called "the world's largest and most sophisticated computer," — the *ILLIAC IV*.

Scheduled for installation early in 1972 at the National Aeronautics and Space Administration's Ames Research Center in Sunnyvale, the computer is now undergoing testing at Burroughs' facilities in Paoli, Pennsylvania.

The announcement, made on Friday, May 14th, comes almost one year after initial shipments of the first commercially available large-scale-integrated (LSI) memory systems began.

According to **Rex Rice**, director of memory systems operations, located at R&D, "70 Processing Element Memories containing 131,072 bits of memory each, have been shipped to Burroughs since April, 1970. Illiac IV will have a capacity of 8,388,608 bits of memory when utilizing 64 processing elements simultaneously."

The giant computer is the result of a contract awarded to Burroughs from the University of Illinois and is funded by the Advanced Research Projects Agency of the Department of Defense.

The Fairchild LSI memory is equal in cost to high-speed core memories but is approximately three times faster. No special power is required since the memory can use the same power supplies as other portions of the computer system. Unlike core memories, the cost per bit in LSI memories remains constant no matter what the size, providing added flexibility for computer designers in the configuration of future systems.