



SEMICONDUCTOR COMPONENTS

Semiconductor Components constitute the main business of the company, and last year accounted for approximately 68 percent of total sales. Nine semiconductor divisions are divided into three operating groups all headquartered in Mountain View, California, each of which embraces a variety of products.

LSI Products Group

LSI is the term applied to semiconductor circuits of high complexity and density, ranging up to tens of thousands of components on a single silicon chip. The group consists of the Bipolar LSI Division, and the MOS/CCD Division.

During 1977 the Bipolar LSI Division maintained its strong position in the bipolar memory and high-performance ECL

(emitter-coupled logic) markets. The industry's first 4K bipolar static RAMs, introduced late in 1976, gained widespread acceptance during the year and are expected to find growing use in conjunction with high-performance microprocessor systems. These advanced memories utilize the company's Isoplanar technology for enhanced performance and density.

The Cray I computer, shown here at the National Center for Atmospheric Research in Colorado, is the world's most powerful information processing machine. The CPU (foreground) of each Cray computer contains 250,000 dual subnanosecond ECL gates and 65,000 1K ECL RAMs, all supplied by Fairchild.