

TEKWeek

Tek expands artificial intelligence family

Tek's Information Display Group is introducing the new 4405 and 4406 Artificial Intelligence (AI) Systems, building on the success of the 4404 AI System announced last August.

The family of Tek AI systems offers a broader, more powerful range of AI capabilities for application developers, researchers, software engineers and computer scientists at prices well below the industry norm. At the same time, Tektronix has introduced the high performance, industry standard Tek Common LISP.

Reinforcing its emphasis on unprecedented price/performance, Tek has also announced a price reduction of its popular 4404 AI System from last year's price of \$14,950 to \$11,950.

Engineered to be a cost-effective AI development tool and delivery system for complex applications, the new 4406, priced at \$23,950, is powered by the new Motorola 68020, assisted by a 68881 floating point co-processor. Michael W. Taylor (AI Marketing manager) says the 4406's performance is comparable to systems that cost significantly more. He expects these AI systems to capture a major portion of the emerging AI market because of their outstanding price/performance.

The 4406 includes a 19-inch, 60 Hz display with a resolution of 1280 X 1024, 2 Mbytes of dynamic RAM (expandable to 4 Mbytes), a 32 Mbyte virtual memory address space, and a 90 Mbyte hard disk (with 5 1/4" floppy).

Designed for use as a powerful personal programming tool or application delivery system, the new 4405 at \$14,950 puts 25-50 per cent more performance in the hands of the user than was possible at this price last year with the 4404. This performance increase is due to the 4405's new Motorola 68020 microprocessor, a 68881 floating point co-processor, and extended memory capacity.

Like the 4404, the new 4405 includes a



TEKTRONIX' NEW 4405 AND 4406 Artificial Intelligence (AI) Systems join the popular 4404 AI System to build an AI family with a broad price/performance range. The 4406 is priced at \$23,950; the 4405 at \$14,950; and the 4404 price has been reduced to \$11,950.

13-inch, 60 Hz screen with a 640 X 480 viewable display that acts as a window to the 1024 X 1024 addressable bit map. Smooth panning across the large bit-map is available with either the standard 3-button mouse or joydisk. The systems also include 1 Mbyte of dynamic RAM (expandable to 4 Mbytes), 8 Mbytes of virtual memory address space, and a 45 Mbyte hard disk (with 5 1/4" floppy).

Targeted at AI development, applied AI, and advanced software engineering, members of the 4400 Family feature the new expanded Smalltalk-80® programming environment, a UNIX®-like operating system, and a C compiler as standard software. The new Tek Common LISP, Franz LISP, MProlog™, and an EMACS editor are available as options.

All 4400 Family members include as standard an RS-232 computer interface, Centronics™ style parallel hardcopy interface, keyboard, mouse, and ANSI X3.64 terminal emulation. Users may add as options dynamic RAM to a total of 4 Mbytes, incremental 90 Mbyte hard disks,

a TCP/IP protocol Ethernet, and streaming tape drive.

Tek reinforces its commitment to current customers with an upgrade capability for the 4404 that allows it to achieve the higher throughput of the new 4405. The 4404F05 Field Kit retrofits the 4404 with the new 68020 CPU and 68881, and is available for \$3,500.

The new Tek Common LISP language is a full implementation of the standard documented in Guy Steele's *Common LISP, The Language*. Developed in conjunction with Franz Inc., Tek Common LISP is optimized for performance on the 4400 Family and offers increased capabilities to advanced LISP users. The new product is licensed at \$6,000, which includes one year of software upgrades and maintenance.

Capabilities of the 4400 Family are further enhanced by the addition of an optional library of UNIX tools, and a number of third-party software packages, including OPS 5, KEST™ from Software Architecture and Engineering, and

REDUCE™ from Rand Corp. Smalltalk functionality has been significantly increased by the addition of a 32-bit Object-Oriented Pointer Space which allows the development and delivery of large applications.

The new AI products were developed in conjunction with Tektronix' research arm, Tektronix Laboratories (Tek Labs), which has been conducting artificial intelligence research since 1980. In response to the demands of Tektronix' AI and Computer Research staffs for a better and more affordable tool, Tek Labs developed the prototype for the 4404, and continues to explore and develop new AI technologies and applications.

The newly-announced products may be ordered immediately and are scheduled for delivery in January 1986. The 4404, Franz LISP, MProlog, and their options are currently available worldwide. Each member of the Family includes a one-year software update subscription, and a 90-day hardware warranty. Extended warranties are available as options.