

Does your computer need help?

Announcing the only communications system
that can solve your on-line computer's
two biggest problems.



Because it was never really designed to cope with it, your on-line computer is being buried alive under its own communications load.

Third-generation computers were supposed to take care of second-generation problems as well as their own systems communications needs. And they do, up to a point.

But as the number and variety of terminals in a system go up, your computer's ability to deliver on that promise goes down.

Depending on the number and type of terminals you have, as much as half of your processor's compute power and memory gets tied up in strictly commu-

nications tasks. The result is degraded system performance.

Many computer owners report their third-generation machines are nearing capacity years before they anticipated, or that their costs are double or triple what they had expected.

Little wonder that many organizations have turned to special software, and jury-rigged "front end" computers to head off that inevitable day when their only alternative is to convert again or to add another enormously expensive central processor.



But Comcet Computer Communications Systems take over most of that load to restore the full thru-put power you paid for.

Comcet Systems are the only new, fresh, and economical approach to the communications problem.

Because Comcet Systems have their own processor, queuing memory, and supporting software—designed specifically to handle communications as a separate systems activity—they can take almost all of the communications load off the back of your central processor and increase its available capacity by 25 to 50 per cent.

By eliminating the need for a larger or second

central processor, a Comcet System offers considerable cost savings. And because it eliminates the need for multiplexors and other conventional line termination equipment, it offers a significant price performance advantage over present systems.

The Comcet 60 is designed for use with computers in the size range of the IBM System 360/50, 360/65, 360/85, and the Univac 1108.

A family of smaller and larger Comcet Systems will be made available in upcoming months.



And because your computer doesn't have the software to face it, it panics at the thought of adding a terminal from another supplier.

The second problem for your on-line computer is its inability to interface with many of the terminal devices now on the market. As a result, users are forced to select their terminals on a compatibility basis, rather than on the preferred cost-performance basis.

Users must either compromise on terminals not ideally suited to their needs, or undergo the high cost of developing and maintaining their own software. This problem has held back many firms from realizing the full potential of computers in their operations.

Systems expansion is made doubly difficult because far too little information is now available to the systems manager on the precise utilization of each segment of his system.

Without more information, it's virtually impossible for him to identify true bottlenecks and how best to correct them. The only course open to him is to overestimate utilization, and thus overdesign his system. The result of this overexpansion is vastly increased non-productive systems costs.



But Comcet Computer Communications Systems let you pick the best terminal for your needs, without concern for who makes it.

Comcet Systems provide modular hardware and software to interface most remote terminals now on the market. Comcet lets you blend your terminal requirements on a cost-performance basis, independent of the manufacturer of your central processor; independent of the terminals used elsewhere.

The total number of terminals that the Comcet 60 can handle is unlimited, too—its 64 "all speed" communications channels can be further expanded to handle up to 2,048 low speed lines.

Another outstanding and innovative feature of all Comcet Systems is SAM, the System Activity Monitor. SAM monitors, displays, and records activity levels as sensed at 144 points in your system. These points include the wait state, worker state, and interrupt state in the processor; storage activity; 12 points in channel activity; and 128 points in line activity.

As many as 32 points can be displayed simultaneously. All data displayed is updated every 5 seconds and stored for subsequent traffic profile analysis.



Add a Comcet Computer Communications System to your installation, now. Your computer will love it.

The Comcet 60 System is available now, a complete ready to install system with all basic software.

The Comcet 60 features a 32-bit parallel processor with a 900 nanosecond memory, expandable from 32,768 bytes to 131,072 bytes. It has 16 high-speed, general purpose registers, 4 general purpose I/O channels, and 64 independent communications channels which handle any type of line service at speeds ranging from 2,000 bits per second to 230,400 bits per second—or even faster when higher speed

modems become available. The instantaneous communications hardware transfer rate is 1,800,000 bps.

For full detailed information, write us describing your present or planned on-line system. Or if you would like to discuss the Comcet System in a technical seminar meeting at your offices, followed by a demonstration at Comcet, just let us know.

Write or call Comcet, Inc. at #2 Research Court, Rt. 70-S and Shady Grove, Rockville, Maryland 20850. Phone (301) 948-8700. **COMCET**

