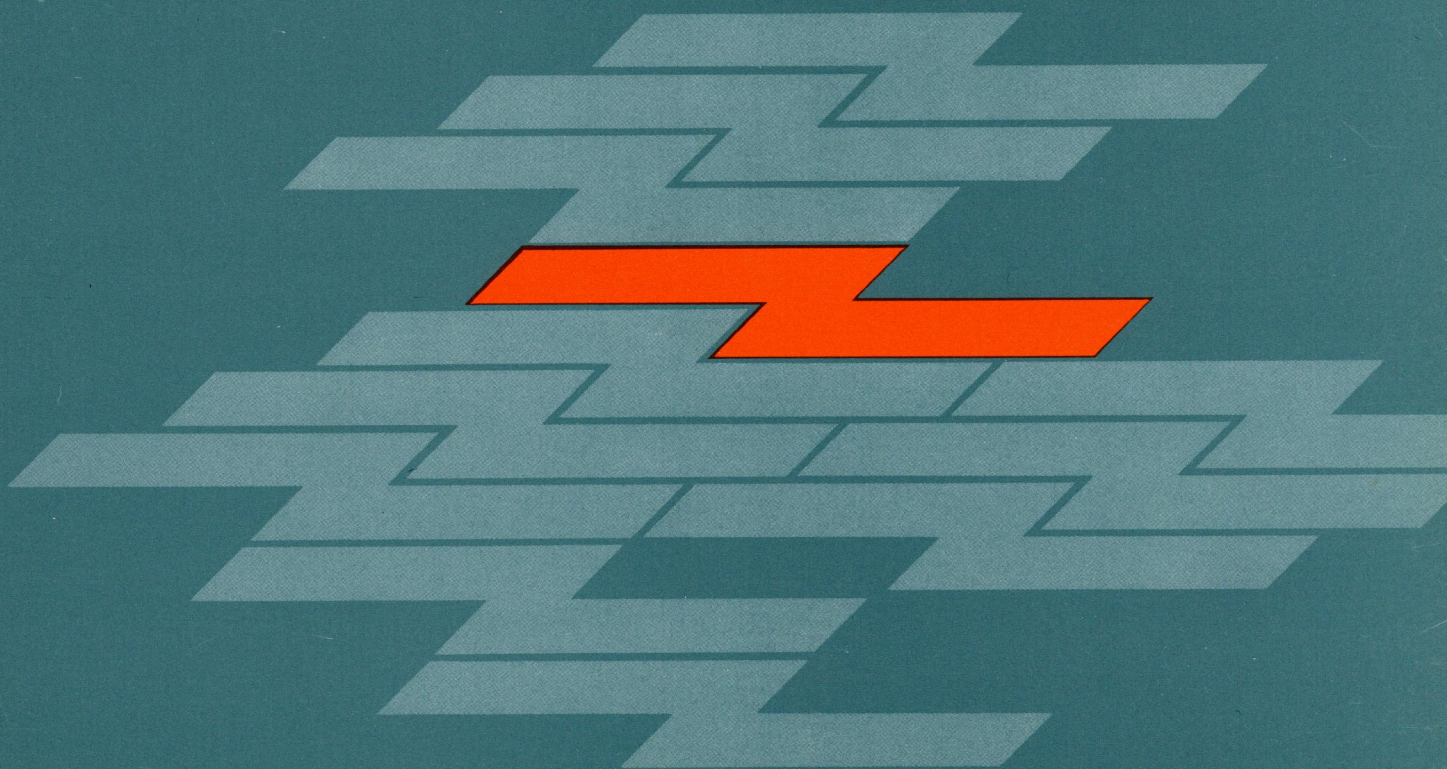


r3600

terminal
system
software





TERMINAL SYSTEM SOFTWARE

The RC 3600 Terminal System provides comprehensive facilities for remote batch, point-to-point, and other applications requiring synchronous block communication techniques. Terminal Simulation Packages enable standard RC 3600 Series equipment to be used with any data communication system in place of IBM 2780/3780, Univac DCT 2000, or CDC 200 UT terminals.

Terminal operating system

An RC 3600 terminal runs in its own operating system, communicating with the operator via a keyboard/display or KSR Teletype. The complex operating procedures associated with the numerous switches, push-buttons, and indicators of hardwired terminals are replaced by a set of simple keyboard commands.

A single command can thus connect the terminal to a central computer or transmit a card deck, for example, whilst the terminal itself keeps the operator informed of all events occurring within the system, including the peripherals and the communication link, that may require action on his part. All input and output is double-buffered by the terminal operating system, which can thus maintain the highest possible throughput permitted by external factors, such as the speed and quality of the communication line.

Peripheral liberation

In addition to its other functions, the terminal operating system can use types of peripherals which are not available on the simulated hardwired terminal. It does this by making them appear to be the same as the units expected by the central site operating system.

Thus a paper tape reader or magnetic tape unit is made to look like the card reader when seen from the other end of

the communication line, whilst data nominally destined for the line printer or card punch may be output to an incremental plotter or to magnetic tape instead.

Multiple terminal simulation

Since terminal simulation takes place entirely by software, using standard RC 3600 Series hardware modules, the terminal can be switched between two or more simulation modes by the simple process of loading the appropriate terminal simulation program.

A powerful terminal system

- Terminal operating system informs user of any condition requiring action, such as line trouble, card read fail, or modem not ready.
- Supports terminal peripherals, including special-purpose devices, not available on simulated terminal, such as incremental plotters, magnetic tape units, and paper tape readers.
- Double-buffering maintains highest possible throughput.
- Statistics prints number of cards transmitted, print lines received, and retransmissions, on request.
- Switches input device during transmission by means of control characters or operator command.
- Selects output device either by operator command or by special control characters in received data.
- Operator may select data code translation table by keyboard command.
- Transforms itself from the equivalent of one mainframe manufacturer's terminal into the equivalent of another simply by loading a new program.



STANDARD TERMINAL FACILITIES

TSP 01 IBM 2780/3780 Simulator

Point-to-point or multipoint operation
EBCDIC, USASCII, or SBT codes
EBCDIC or SBT transparency
Multiple record feature
Vertical format control
Horizontal format control
Space compression / expansion
Cyclic redundancy check
Full or half duplex communication line

SPECIAL FEATURES

Automatic error recovery
Transmission speeds up to 9600 bps
Keyboard simulation of control cards
Special input/output devices
Hardcopy output

EQUIPMENT PREREQUISITES

Central unit
16 K bytes of memory
KSR Teletype or keyboard/display
BSC controller
RC 3600 Series input/output devices
as required

TSP 02 Univac DCT 2000 Simulator

Character and block parity check
Select character capability
Error detection and retransmission
Short block capability
Card code translation
Line printer form control
Full or half duplex communication line

Transmission speeds up to 9600 bps
Keyboard simulation of control cards
Special input/output devices
Hardcopy output

Central unit
8 K bytes of memory
KSR Teletype or keyboard/display
BSC controller
RC 3600 Series input/output devices
as required

TSP 03 CDC 200 UT Simulator

Shared line operation
Interleaved communications
Character and block parity check
External BCD or ASCII codes
Card code translation
Error detection and retransmission
Character compression (receive only)
Line truncation
Hardcopy output
Full or half duplex communication line

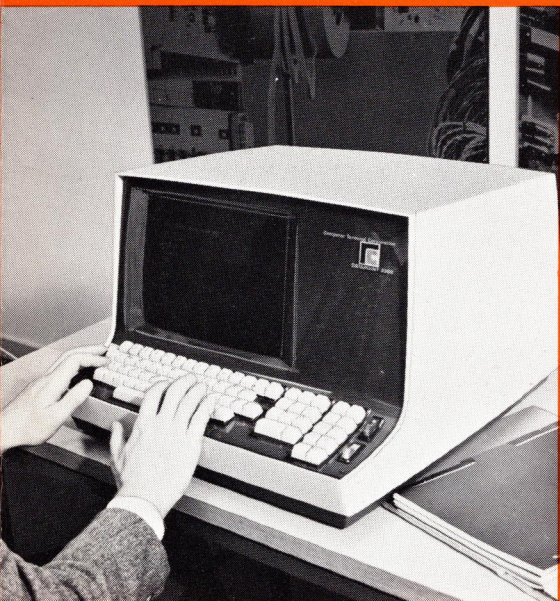
Transmission speeds up to 9600 bps
Special input/output devices

Central unit
16 K bytes of memory
Keyboard/display
BSC controller
RC 3600 Series input/output devices
as required



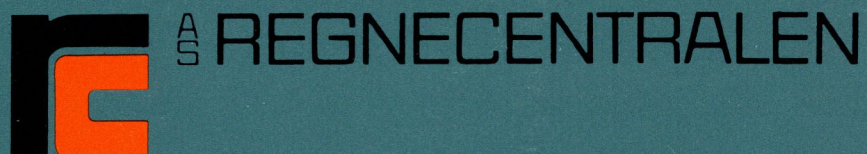
***Intelligence -
in the RC 3600 Terminal System***

- Gives better control of the terminal, its peripherals, and the communication link.*
 - Permits better overlapping of input, output, communication, operator commands, etc.*
 - Permits remote batch use of peripherals not supported by the mainframe manufacturers' terminals.*
 - Permits running of diagnostic programs for preventive or unscheduled maintenance.*
 - Permits simulation of more than one mainframe manufacturer's terminal with a common set of hardware.*
- ... Intelligence costs no more.*





The terminal system Software described in this brochure runs on standard RC 3600 Series hardware modules. These can also support other modes of use. See the brochure entitled RC 3600 Peripheral System Software.



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