

3704

**Communications
Controller**



Product Description

An IBM programmable teleprocessing controller that:

- Performs most IBM 2701, 2702, 2703 functions as well as selected host access method functions to improve CPU availability.
- Improves CPU throughput by assuming some of the message control functions formerly done by the CPU, such as:
 1. Error Recovery
 2. Addressing
 3. Data Link Control
 4. CPU status to active terminals
 5. Buffering incoming data with date and time stamping
 6. Code translation

The extent of message control functions assumed is limited only by the amount of storage in the 3704.

- The 3704 and 3705 are program compatible, to the extent that the same program would run on identically configured 3704's or 3705's.

Optional Features

- Expandable to 48K bytes of storage.
- Maximum of 32 lines with optional adapters ranging in speed from 45 bps to 7200 bps.
- Type 1 Channel — Byte multiplexer attachment to CPU
 - Emulation of 2701, 2702, 2703
- Two Channel Switch — manual switching of machine between two CPU channels.
- Internal Clock — business machine clocking of modems.

Maintenance Features

- CE/Operator Console
- MST Latch Card
- Indicator Probe
- Hardware Bring-up Tests
- OBR/SDR
- On-Line Testing Through TCAM/TOTE

Career Path

- This product is in the General Systems category.

Technology

- MST 1/MST E = Primary Technology used throughout machine
- Semiconductor Storage — 8K for basic machine expandable in 8K increments to 48K
 - Read and write cycle of 600 nanoseconds
 - Non destructive read
- Power System — Single phase 115V - 220V

Uses two TSR-4 (Transmission Switching Regulator) supplies and three Series regulators to obtain seven different dc voltages.

Program Support

The 3704 is supported by three program components.

1. System Support Package (SSP) CPU-resident utilities:

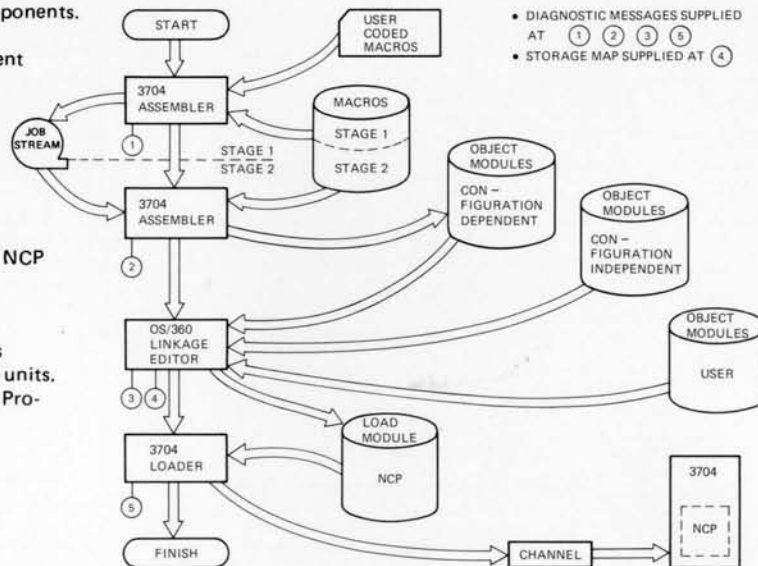
Assembler
System Generation Procedure
Loader
Dump

2. Network Control Program (NCP)

Generated by SSP, loaded into 3704. The NCP drives the communications network.

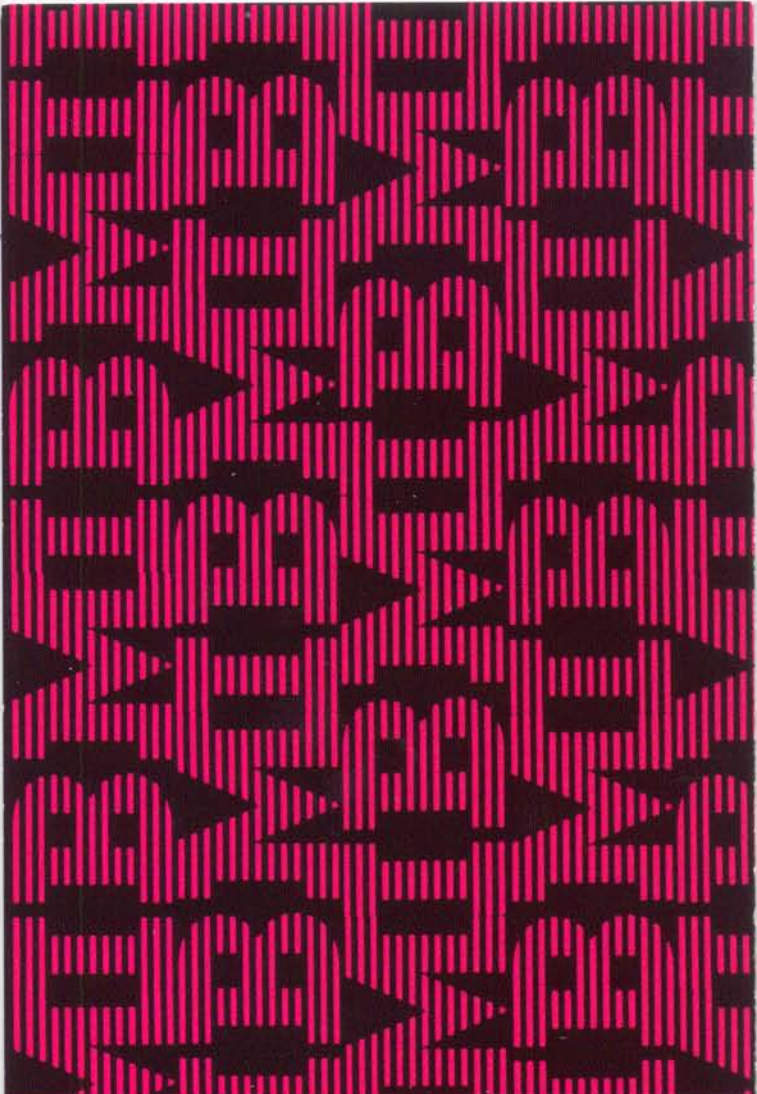
3. Emulation Program

3704 resident program emulates functions of 2701, 2702, 2703 transmission control units. Mutually exclusive with Network Control Program.



The Network Control Program or Emulation Program is defined and generated by the user with IBM supplied modules and macroinstructions.

- The Network Control Program will interface with TCAM.
- The Emulation Program will interface with existing BTAM, QTAM or TCAM programs. (OS/360 and DOS/360)
- 3704 Programming Components have service classification A.



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