



Information System

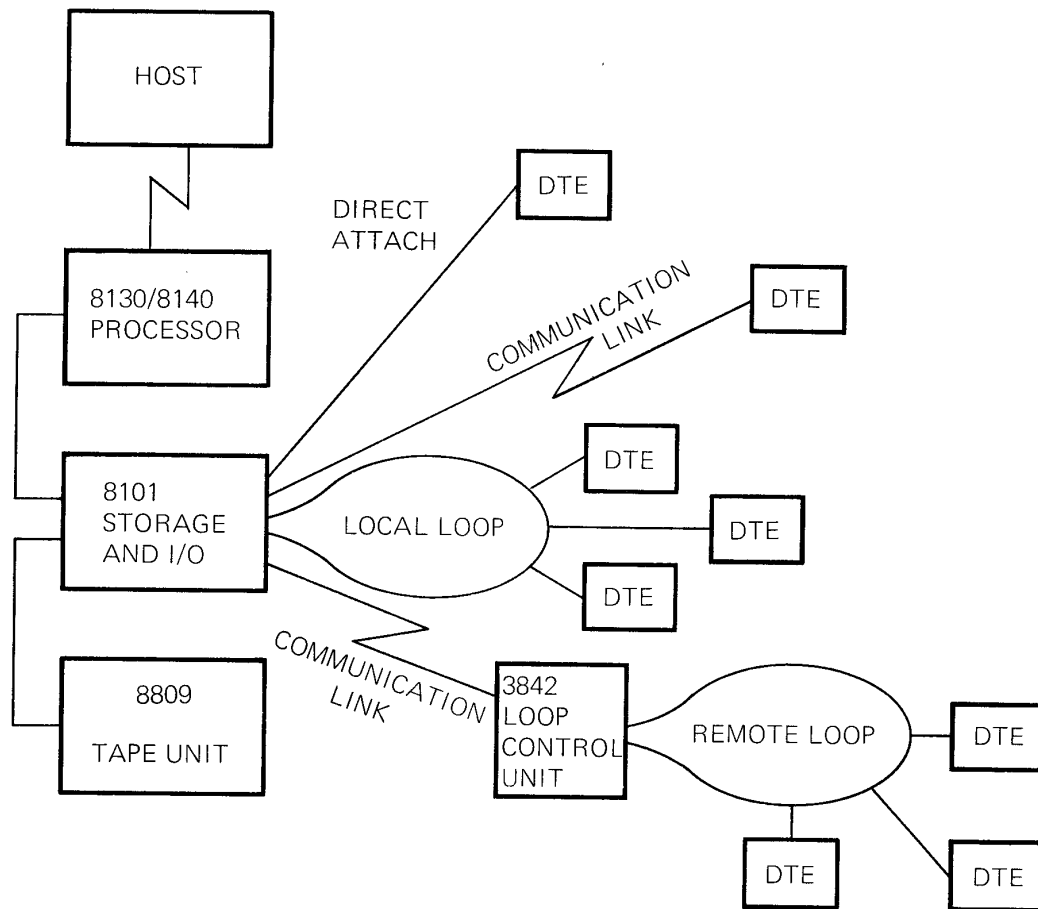
8100

DISTRIBUTED SYSTEM INTRODUCTION

The concept of a distributed processing system is to fully utilise a central data base, whilst fulfilling the needs of end users. That is, to improve productivity, decrease costs and to enable them to perform their tasks more efficiently.

Distributed processing enables end users at many locations to perform processing tasks in a wide variety of ways, each being tailored to individual application requirements.

Distributed processing is achieved by using programmable devices with data storage, together with host or peer processors, linked together to form a network.



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8100 INFORMATION SYSTEM

Description

The IBM 8100 System is a family of products designed to meet the diversified requirements of data processing.

The 8100 System consists of the following machines: -

- 8130 and 8140 Processors
- 8101 Storage and I/O Unit
- 8809 Tape Unit

The 8775 display terminal to be used on the 8100 System is also being announced at this time.

The 8100 System offers a choice of processing speed, storage size, disk capacity and a large number of new and existing I/O devices.

The IBM 8100 Information System can operate: -

- As a satellite to an IBM S/370 Central Host Site
- As a Peer to another IBM 8100 System
- As a Stand-alone computer

System Highlights

- Can adapt computing power to organisational requirements
- Back-up/Reliability as required
- Standardization of application design if required

All photos in this brochure are of design models.

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SYSTEM 8100 LICENSED PROGRAM PRODUCTS

- DPPX/Base — Distributed Processing Programming Executive/Base
- DPCX — Distributed Processing Control Executive

DPPX family of licensed programs —

on 8100 —

- DPPX/Base
- DPPX/DTMS — Data Base and Transaction Management System
- DPPX/DPS — Distributed Presentation Services
- DPPX/DMS — Development Management System
- DPPX/RJE — Remote Job Entry Workstation Facility
- DPPX/DSC — 3270 Data Stream Compatibility
- DPPX/COBOL — Compiler and Library
- DPPX/FORTRAN — Compiler and Library
- DPPX/ASSM — Assembler
- DPPX/GEN 3644 — Parameter Table Generation Facility for IBM 3644 Automatic Data Unit
- DPPX/SORT — Sort/Merge
- DPPX/PT — Performance Measurement Tool

on system/370 Host —

- DSX Distributed System Executive version 2
- Host Command Facility

DPPX/Base can be used as stand-alone system or attached to a system 370. It includes the usual operation system components

DPCX is a Program Control System that allows migration from the 3790 system to 8100 Information System.

CUSTOMER PROBLEM DETERMINATION AIDS

DISTRIBUTED SYSTEMS NETWORK MANAGEMENT

(System/370 Host Licensed Program Product)

- Allows a S/370 - 3270 Display user to act as the console operator for multiple DPPX /8100 systems connected to the S/370.
- Allows the S/370 3270 user to issue any command and use any function available to a 3270 at the DPPX/8100 system site.
- Allows the customer to distribute his processing while keeping the data processing expertise at the host site.

DISTRIBUTED SYSTEMS EXECUTIVE

(System/370 Host Licensed Program Product)

- Data Set Management
- Allows receipt of DPPX data sets including error logs, dumps, and other problem determination data.

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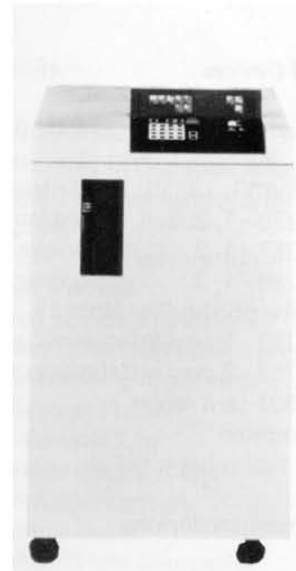
8130 AND 8140 PROCESSORS DESCRIPTION

The IBM 8130 or 8140 processor units provide control, storage, processing capability, disk storage, diskette storage and communications capabilities for the IBM 8100 Information System. The major difference between the 8130 and 8140 processors is the operating speed. Under DPPX System Control Program, the 8140 executes instructions approximately 60% faster than the 8130 but has compatible functional characteristics.

Models

8130 Processor is available in eight models and 8140 Processor is available in twelve models depending on processor memory size and non-removable disk storage size. Processor memory size ranges from 128K bytes to 512 bytes. Non-removable disk storage options range from 23 mega-bytes to 64 mega-bytes.

All models include removable diskette storage of 1M byte.



Highlights

The capability of the 8130 and 8140 processors is extended by providing for the attachment of a variety of input/output devices. These devices consist of displays, printers, magnetic tape, controllers and data collection units. These devices may be attached via communication facilities which include direct attached or data link attached loops, and direct connected or remote data links. This capability can be expanded by attachment of the 8101.

Feature Highlights

- High Function Panel (8140 only)
- Floating Point (8140 only)
- SDLC Communication
- BSC Communication
- S/S Communication
- Keylock
- 8101 attachment allows additional disk storage, communications and direct attachment capabilities.
- 8809 Tape Attachment Capability
- Power Control Feature

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