IBM System Control Programming for System/3 Models 8 and 10 Disk System Program Number 5702-SC1 (Version 15)

The SCP (system control programming) programs perform the system control functions that are basic to a System/3; SCP 5702-SC1 is designed to support System/3 Model 8 and Model 10 Disk System.

The SCP consists of disk system management, system control programs, and system utility programs. Operation control language (OCL) statements are used to control system operation. Libraries on disk store object programs, source programs, and OCL procedures.

The disk system management consists of a supervisor, a scheduler, and data management facilities for operation and use of the system and for execution of user programs. Dual programming facilities are provided.

System control and utility programs are provided to enable the user to prepare and maintain system libraries and data files and to perform basic functions necessary for the operation of the system and the maintenance of application programs.

System Requirements

A minimum System/3 Model 8 includes:
- 5408 Processing Unit Model A14 (16K bytes)
- 5203 Printer
- 5444 Disk Storage Drive
- One of the following:
  - 3741 Data Station/Programmable Work Station, directly attached
  - 5471 Printer-Keyboard

For this SCP, a minimum System/3 Model 10 Disk System includes:
- 5410 Processing Unit Model A13 (12K bytes)
- 5203 or 1403 Printer
- 5444 Disk Storage Drive
- One of the following:
  - 5424 Multi-Function Card Unit
  - 1442 Card Read Punch

Features

The following features are available as separately orderable components of the SCP. SCP 5702-SC1 is required for each of these features.

Feature	Number
Remote Job Entry Work Station Feature	6004/6006
Macros Feature	6020/6021
IBM 5445 Disk Storage Feature (Model 10 only)	6022/6023
Magnetic Tape Support Feature	6024/6025
Overlay Linkage Editor and Checkpoint/Restart Feature	6026/6027
BSCA Multiline/Multipoint Feature	6030/6031
Communications Control Program	6033
IBM 3881 Optical Mark Reader Feature	6034/6035
MULTI-LEAVING Remote Job Entry Work Station Program	6036/6037
IBM 3741 Data Station Feature	6066/6067
IBM 5448 Disk Storage Drive Feature	6074

Remote Job Entry Work Station Feature

This feature permits a System/3 Model 8 or Model 10 Disk System user to submit OS/360 jobs over communications facilities to a central System/360 or System/370 for execution and to receive output from the central system upon completion of the job.

Approximately 5,120 bytes of main storage are required for execution.

Macros Feature

This feature provides data management and support to control input/output devices through assembler languages.

IBM 5445 Disk Storage Feature—Model 10 Only

This feature provides support for 5445 Disk Storage as an input/output and data storage device.

In addition to the minimum system requirements for SCP 5702-SC1, this feature requires 5445 Disk Storage.

Magnetic Tape Support Feature

This feature provides support for magnetic tape as a data storage device on a System/3 Model 8 or Model 10 Disk System.

In addition to the minimum system requirements for SCP 5702-SC1, this feature requires the 3410/3411 Magnetic Tape Subsystem.

Overlay Linkage Editor and Checkpoint/Restart Feature

The overlay linkage editor facility creates loadable programs from multiple relocatable modules. The checkpoint facility permits writing checkpoint records when using problem programs that have checkpoint/restart capabilities. The restart facility allows the user to resume execution of programs from the last checkpoint rather than from the beginning.

BSCA Multiline/Multipoint Feature

This feature provides communications support for a System/3 Model 8 or Model 10 Disk System when used in conjunction with the Macros Feature and an assembler program.

For source program compilation, the minimum Model 8 or Model 10 Disk System requirements are the same as for SCP 5702-SC1. For execution of an object program on a Model 10, this feature also requires BSCA, a log device, and a minimum of 16K bytes of storage. For object program execution on a Model 8, this feature also requires a log device and either BSCA or ICA.

In addition to SCP 5702-SC1, this feature requires the Macros Feature.

Communications Control Program

CCP (Communications Control Program) provides control program services needed for telecommunications systems.

In addition to the minimum system requirements for SCP 5702-SC1, CCP on Model 10 requires 24K of main storage (or 32K if Display Format Facility is used), a 5471 Printer-Keyboard, either MLTA or BSCA, and at least one communications terminal.

CCP on Model 8 requires, in addition to the minimum system, 32K bytes of main storage, a 5471 Printer-Keyboard, either ICA or Local Display Adapter, and at least one communications terminal.

In addition to SCP 5702-SC1, CCP requires the Macros Feature, the Overlay Linkage Editor and Checkpoint/Restart Feature, and the BSCA Multiline/Multipoint Feature or its equivalent.

IBM 3881 Optical Mark Reader Feature

This feature provides a system subroutine for data management and input control of the IBM 3881 Optical Mark Reader attached to a System/3 Model 8 or Model 10 Disk System. This subroutine is used with a user-written RPG II or assembler program.

In addition to the minimum system requirements for SCP 5702-SC1, this feature requires a Serial Input/Output Channel (SIOC) and a 3881 Optical Mark Reader.

MULTI-LEAVING Remote Job Entry Work Station Program

This program permits a System/3 Model 8 or Model 10 Disk System to function as a MULTI-LEAVING remote job entry work station communicating with a System/370 operating under control of one of the following:
- HASP II (Version 3.1 or 4.0)
- ASP (Version 2.6 or 3.0)
- Remote Entry Services (RES) of JES under OS/VS1
- MULTI-LEAVING Work Station facilities of JES2/JES3 under OS/VS2
- VM/370 Remote Spooling Communications Subsystem (RSCS)

In addition to the minimum system requirements for SCP 5702-SC1, this feature requires BSCA (or ICA for Model 8) with EBCDIC. A minimum program level size of 8.5K bytes is required for execution.

In addition to SCP 5702-SC1, this program requires the Overlay Linkage Editor and Checkpoint/Restart Feature.

IBM 3741 Data Station Feature

This feature provides disk system management support for a 3741 Data Station or 3741 Programmable Work Station directly attached to a Model 8 or Model 10 Disk System.

In addition to the minimum system requirements for SCP 5702-SC1, this feature requires a 3741 directly attached.

IBM 5448 Disk Storage Drive Feature

This feature supports the IBM 5448 Disk Storage Drive as an input/output and data storage device.

In addition to the minimum system requirements for SCP 5702-SC1, this feature requires a 5448 Disk Storage Drive.

Reference Material

- *IBM System/3 Model 8 Introduction,* GC21-5114
- *IBM System/3 Models 4, 6, 8, 10, or 12 System Generation Reference Manual,* GC21-5126
- *IBM System/3 Models 8 and 10 System Control Programming Reference Manual,* GC21-7512
- *IBM System/3 Bibliography,* GC20-8080