



IBM Series/1 Event Driven Executive Basic Supervisor and Emulator (5719-XS5)

The IBM Series/1 Event Driven Executive Basic Supervisor and Emulator Version 5 (5719-XS5) is a multiprogramming, multitasking system supervisor. The supervisor supports multiple, independent, time-dependent, and event-driven applications.

The terminal support allows you to assign terminals dynamically to any application program. An application program can be loaded from any terminal or from other application programs.

The emulator supports a high-level instruction set (EDL) which increases the productivity of application development.

The highlights of this licensed program include

- Multiprogramming, multitasking supervisor:
 - Cross partition supervisor
 - Unmapped Storage Manager
 - Multiple independent applications run concurrently
 - Up to 510 task priorities
 - Instruction execution emulator (table driven)
 - Provision for selective mapping of system-wide common data areas for interprogram communication.
- High-level instruction set:
 - Integer and floating-point calculations
 - Logical, shifting, and bit-manipulation instructions
- Structured-program functions
- Interval timing and time-of-day functions
- Task control and synchronization
- Generalized binary synchronous communications capability for basic read/write to other systems.
- Printer output spooling with the capability of browsing a spool job.
- Multiple device support, such as:
 - Disk and diskette storage units
 - Local and remote terminals, including ASCII support for remote terminals
 - Remote printers, through the Multifunction Attachment feature #1310.
- General support for the 4968 and 4969 Magnetic Tape Subsystem
- Communications support, such as:
 - Binary synchronous communications
 - X.21 circuit switched network support
 - Series/1-to-Series/1 attachment support
 - Local Communications Controller (LCC) attachment support.

- **Sensor input/output support:**
 - Analog input/output, digital input/output, and process interrupt
 - Sequential and random addressing of devices
 - External synchronization
 - Relay or solid state multiplexing
 - Multirange analog input.
- **Flexible operating environment:**
 - Multitasking, storage-resident only
 - Multiprogramming, multiterminal, communications to host, disk and/or diskette-based distributed processing, and/or program preparation capability.
- **Data management:**
 - Disk-resident table of contents
 - Disk immediate read support.
- **Utility functions, such as:**
 - Initializing and formatting disks and diskettes
 - Copying, allocating, and deleting data sets and volumes
 - Allocating disk volumes in unmapped storage
 - Monitoring processor and disk usage and analyzing system and program performance
 - Multiprogramming loader
 - Support for extendable data sets.

- **Problem determination aids:**
 - Problem determination utilities
 - Error logging facility
 - Remote support link for IBM problem analysis support.
- **EXIO support that enables programs to:**
 - Open and close EXIO devices
 - Create a circular chain of DCBs
 - Break a circular chain DCBs.

Specified Operating Environment

Machine Requirements

For a single program, executing as part of the supervisor, the minimum requirements are:

- 4952, 4954, 4955 (except Models A and C), or 4956 Processor with 96K bytes of storage
- 4964, 4965, or IDSK Diskette Unit, or 4966 Diskette Magazine Unit
- 4962, DDSK, or IDSK Disk Storage Unit, or 4963 or 4967 Disk Subsystem.

Often applications will require additional storage for supervisor functions and control blocks. These could be functions such as:

- Unmapped storage support
- Message data set support
- Printer output spooling

- Communications support
- Terminal support
- Dynamic program loading
- Floating-point support
- Timer support and other I/O devices.

Use of certain optional functions requires additional hardware, such as:

- #7840 timers
- #3920 floating-point (available only on the 4955 Processor)
- #3925 floating-point (available only on the 4954 and 4956 Processor)
- 4968 Autoload Magnetic Tape Unit
- 4969 Magnetic Tape Subsystem
- 4982 Sensor I/O Unit
- 4973 Line Printer
- 4201, 4224, 4974, 4975, 5219, 5224, 5225, or 5262 Printer
- 4978, 4979, 4980 Display Station, or 3101, 3161, 3163, or 3164 Display Terminal.

To perform installation and system generation, the minimum requirements are:

- 4952, 4954, 4955 (except Models A and C), or 4956 Processor with 128K bytes of storage
- 4962, DDSK, or IDSK Disk Storage Unit, or 4963 or 4967 Disk Subsystem,
- 4964, 4965, or IDSK Diskette Unit, or 4966 Diskette Magazine

- 4974 or 4975 Printer
- One of the following:
 - 4978 Display Station
 - 4979 Display Station
 - 4980 Display Station
 - 3101, 3161, 3163, or 3164 Display Terminal or equivalent teletypewriter device.

Programming Requirements

The following additional licensed program is required for program preparation, assembly, and system generation on the Series/1:

- IBM Series/1 Event Driven Executive Program Preparation Facility (5719-XX6).

The following two licensed programs can be used as a replacement for the IBM Series/1 Event Driven Executive Program Preparation Facility (5719-XX6):

- IBM Series/1 Event Driven Executive Macro Assembler (5719-ASA)
- IBM Series/1 Event Driven Executive Macro Library (5719-LM9).

For program preparation and assembly of application programs on a System/370, the following licensed programs are required:

- IBM System/370 Program Preparation Facility FDP (5799-BNA)
- IBM Series/1 Event Driven Executive Macro Library/Host (5740-LM6).

The IBM Series/1 Event Driven Executive Basic Supervisor and Emulator Version 5 (5719-XS5) provides the operating environment for:

- IBM Series/1 Event Driven Executive Macro Assembler (5719-ASA)
- IBM Series/1 Event Driven Executive Indexed Access Method Version 2.1 (5719-AM4)
- IBM Series/1 Event Driven Executive Multiple Terminal Manager (5719-MS2)
- IBM Series/1 Event Driven Executive System/370 Channel Attach Program (5719-CX1)
- IBM Series/1 Event Driven Executive Systems Network Architecture Remote Job Entry (5719-SX2)
- IBM Series/1 Event Driven Executive Systems Network Architecture (5719-SX1)
- IBM Series/1 Event Driven Executive Systems Network Architecture (5719-XX9)
- IBM Series/1 Event Driven Executive COBOL Version 2 Compiler and Resident Library (5719-CB5)
- IBM Series/1 Event Driven Executive COBOL Version 2 Transient Library (5719-CB6)
- IBM Series/1 FORTRAN IV Compiler and Object Support Library (5719-FO2)
- IBM Series/1 Event Driven Executive Mathematical and Functional Subroutine Library (5719-LM3)
- IBM Series/1 Event Driven Executive Sort/Merge (5719-SM2)
- IBM Series/1 Event Driven Executive PL/I Compiler and Resident Library (5719-PL5)

- IBM Series/1 Event Driven Executive PL/I Transient Library (5719-PL6)
- IBM Series/1 Event Driven Executive Query, (5719-XR1)
- IBM Series/1 Event Driven Executive Remote Manager (5719-RM1)
- IBM Series/1 Event Driven Executive Advanced Remote Job Entry (5719-RJ1)
- IBM Series/1 Event Driven Executive Transaction Processing System (5719-TR1)

Licensed Program Materials Availability

Restricted materials — Yes. This licensed program is available with source licensed program materials for some modules designated as “RESTRICTED MATERIALS OF IBM.” In addition, some modules are available without source licensed program materials. These modules are available in object code.

Supplemental Terms

Testing Period

The testing period for the Basic License is one month.

Installation/Location License

Not applicable. A separate license is required for each machine on which the licensed program will be used.

Usage License

Not applicable.

Type/Duration of Program Services

Central Service, until discontinued by IBM with a minimum of six months written notice.

Warranty

The IBM Series/1 Event Driven Executive Basic Supervisor and Emulator (5719-XS5) licensed program will conform, when shipped to the Customer, to its Licensed Program Specifications which are in effect for it at that time, provided it is properly used in a Specified Operating Environment. If the Customer believes there is a defect in the program such that it does not meet its Licensed Program Specifications, the Customer must notify IBM while Program Services are available for the program. IBM does not warrant that the functions contained in the program will meet the Customer's requirements or will operate in the combinations which may be selected for use by the Customer, or that the operation of the program will be uninterrupted or error free or that all program defects will be corrected.

THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Licensed Program Specifications may be updated from time to time and such updates may constitute a change in specifications.

For Distributed Systems License Option (DSLO) Licenses, warranty service, if any, will be provided only through the Basic License location.

Following the discontinuance of all program services, the program will be distributed on an "As Is" basis without warranty of any kind either express or implied.

General Documentation

- *IBM Series/1 Event Driven Executive Library Guide and Common Index*, SC34-0645
- *IBM Series/1 Event Driven Executive Installation and System Generation Guide*, SC34-0646
- *IBM Series/1 Event Driven Executive Language Programming Guide*, SC34-0637
- *IBM Series/1 Event Driven Executive Language Reference*, SC34-0643
- *IBM Series/1 Event Driven Executive Messages and Codes*, SC34-0636
- *IBM Series/1 Event Driven Executive Operation Guide*, SC34-0642
- *IBM Series/1 Event Driven Executive Operator Commands and Utilities Reference*, SC34-0644
- *IBM Series/1 Event Driven Executive Problem Determination Guide*, SC34-0639
- *IBM Series/1 Event Driven Executive Communications Guide*, SC34-0638
- *IBM Series/1 Event Driven Executive Customization Guide*, SC34-0635
- *IBM Series/1 Event Driven Executive Internal Design*, LY34-0354
- *IBM Series/1 Event Driven Executive Reference Aids*, SB0F-1629
- *IBM Series/1 Software Service Guide*, GC34-0099.

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