

STANDARD OPERATING ENVIRONMENT—IBM

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Appendix

1. GENERAL

1.01 This section describes the Standard Operating Environment (SOE)—IBM. The environment functions as an interface between the users of centrally developed systems [who are generally the Operating Telephone Companies (OTCs)] and the designers of the systems. The existence of a standard interface lowers the costs of designing, installing, and maintaining centrally developed systems, thus encouraging their wider acceptance and use.

1.02 This section is being reissued to reflect changes made by the System Rules Committee from the release date of Issue 4 through June 23, 1980. Items superseded or deleted by this issue or earlier issues are listed in Part 5. Paragraphs 1.01 through 1.04 have been rewritten, and instructions for the PTF Data Base System have been included in the Appendix. Since this reissue is a general revision, arrows ordinarily used to indicate changes have been omitted.

1.03 This section applies to centrally developed systems and to computer centers operating such systems when the systems are designed to utilize IBM computers as covered in Section 007-200-100.

1.04 On an average, some change is made to the SOE—IBM at every other meeting of the System Rules Committee. It is impractical to reissue this section so frequently. To supplement this section, several channels are used to communicate revisions to the SOE—IBM.

(a) An updated copy of the standard operating environment is maintained in the PTF Data Base. The Appendix contains the access instructions for the PTF Data Base System.

(b) Any change to the SOE—IBM is included in the article summarizing each System Rules Committee meeting that appears in the *Processor newsletter*.

(c) Any change to the SOE—IBM that has a significant effect on the OTC environment or that will require a significant effort to implement in the OTCs will be communicated to the OTCs by system letter.

2. EFFECTIVE DATES

2.01 The effective dates for portions of this SOE are shown next to the component name. Where no effective date is shown, the component became effective on January 1, 1977, or earlier.

3. SOFTWARE ENVIRONMENT

3.01 The software portion of the SOE—IBM includes:

(a) *Basic control system: VS2 Release 3.8* (effective January 1, 1980).

(b) *Control subsystem: JES2*. OTCs may use other (unmodified) job control subsystems that are transparent to the components listed in this SOE. It will be the responsibility of the OTC to ensure transparency.

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(c) System options:

- (1) SMF with system, job, and job-step records
- (2) ASCII tape support.

(d) Data management software: IMS/VS Version 1.1.5, Refresh Level (effective January 1, 1980).**(e) Utilities:**

- (1) SYNC SORT Version 4.5 Release 2.3E (effective April 18, 1980).
- (2) Fast Dump Restore and Data Set Function (FDR/DSF) Version 4.1 (effective September 1, 1977).

(f) Miscellaneous program products:

- (1) Report generator: MARK IV Release 8.0 (effective June 27, 1980).*
- (2) Inquiry language (for on-line preparation of batch inquiries): ASI-ST Release 14 with conversational feature (effective July 13, 1980).*
- (3) Inquiry language (for totally on-line inquiries): ASI/Inquiry (effective September 7, 1977).**
- (4) Optimizer: CAPEX COBOL Optimizer III Release 2.4 (for central developing agencies only). (Effective February 1, 1980.)

(g) Language capabilities:

- (1) OS/VS COBOL Release 2.3 (effective April 18, 1980).

*Features for these components are contained in the PTF data base. Access instructions are in the Appendix.

**The release level is being determined. After it is approved by the SRC, it will be announced as described in paragraph 1.04.

***OTCs are required to have only the transient libraries, not these compilers.

- (2) OS/VS COBOL Subroutine Library (effective May 15, 1978).

- (3) FORTRAN H Release Level 21.7.***

- (4) PL/1 Optimizer Compiler Version 1 Release 3.1. Requires Release 1.3.1 of the PL/1 Transient Library.*** (Effective April 18, 1980.)

- (h) **Teleprocessing controller software:** 3705 Emulator Program Version 2 or 3 (if the 3705 is used).

- (i) **Teleprocessing access method and communications packages:** See Section 007-400-100, Standard Operating Environment—Data Communications.

4. HARDWARE ENVIRONMENT

4.01 The hardware portion of the SOE—IBM includes the following. OTCs may select among the optional models listed, but centrally developed systems must function properly on all options. Plug-compatible equivalent devices may be used; however, the user is responsible for ensuring plug compatibility.

- (a) **Central processing unit:** System 370 Model 158 or higher.
- (b) **Mass-volume storage device:**
 - (1) 3330 Model 1
 - (2) 3330 Model 11
 - (3) 3350 Native Mode.

- (c) **Magnetic tape:** Nine channels, 1600 or 6250 bpi, except that other formats may be specified for interfacing purposes only.

(d) Unit record devices:

- (1) Card punch and reader, 80-column card
- (2) Printer, 132 print positions, 6 lines per inch
- (3) Print train, PN or P11

- (4) Print train PL1 may be specified for dumps only.
- (e) *Teleprocessing controller:* IBM 3705.
- (f) *Terminals:* See Section 007-400-100, Standard Operating Environment—Data Communications.

5. DELETED AND SUPERSEDED COMPONENTS

5.01 The following components have been deleted or superseded by this issue or earlier issues of the SOE—IBM. Central developers will not be required to provide support for these components after the date shown next to the component.

- (a) Mark IV/270 Release 7.0 (September 12, 1980)
- (b) ASI-ST with conversational feature Release 13 (September 12, 1980)
- (c) OS/VS COBOL Release 2.2 (June 2, 1980)
- (d) PL/1 Optimizing Compiler Version 1 Release 3.0, PTF 68 (May 31, 1980)
- (e) SYNCSORT Version 4.5 Release 2.3C (May 16, 1980)
- (f) Capex COBOL Optimizer III Release 2.2 (March 7, 1980)
- (g) SYNCSORT Version 4.5 Release 2.3A (September 14, 1979)
- (h) VS2 Release 3 (September 15, 1980)
- (i) IMS/VS 1.1.4 (September 15, 1980)
- (j) SYNCSORT Version 4.5 Release 2.2B (October 5, 1979)
- (k) Capex COBOL Optimizer III Release 1.3 (September 7, 1979)
- (l) PL/1 Optimizing Compiler Version 1 Release 3.0, PTF 65 (June 22, 1979)
- (m) OS/VS COBOL Release 2.1 (May 4, 1979)
- (n) Capex COBOL Optimizer II (January 9, 1979)
- (o) UCC 10 (July 20, 1978)
- (p) MARK IV Release 6.0 (September 15, 1978)
- (q) ANSI COBOL Version 4 Release 1.4 (October 6, 1978)
- (r) SYNCSORT Version 3.5 Release 2.1D (July 14, 1978)
- (s) SYNCSORT Version 3.5 Release 2.0B (December 1, 1977)
- (t) PL/1 Optimizer Version 1 Release 2.2 (March 31, 1977)
- (u) OS/VS Sort/Merge (June 1, 1977)
- (v) BIS-TRAN (January 1, 1977)
- (w) MARK IV/270 Release 5 (April 30, 1977)