



Document Composition Facility Release 2.0 Program Number 5748-XX9

The IBM Document Composition Facility licensed program is a text-processing application that supports the use of computers in the preparation of printed materials. This facility contains a formatter called SCRIPT/VS and an optional Foreground Environment Feature that enables it to be used with the OS/VS2 MVS Time Sharing Option (TSO) or the VM/370 Conversational Monitor System (CMS). Release 2 of the Document Composition Facility, with the Foreground Environment Feature installed, also supports operation of the SCRIPT/VS formatter under the newly announced Advanced Text Management System-III (ATMS-III) Release 1.0 (OS-5740-XYL and DOS-5746-XXU). In addition, a number of new page composition and general text processing functions have been added.

SCRIPT/VS Highlights

SCRIPT/VS is a text-processing program that provides the facilities for manuscript preparation, text markup, page makeup, and printing. SCRIPT/VS formats text for printing on impact printers and the IBM 3800 Printing Subsystem, as well as terminals such as the IBM 2741, and displays, such as the IBM 3270. SCRIPT/VS can also be used as a "preprocessor" to prepare documents for processing by other programs such as formatters that support photocomposers.

Release 2 of SCRIPT/VS is designed to provide the following function:

- OPERATION UNDER ATMS-III RELEASE 1.0: The SCRIPT/VS formatter (with the Foreground Environment Feature installed) can now be invoked to run directly under the control of ATMS-III.
- PRODUCTION OF STAIRS/VS INPUT: The SCRIPT/VS formatter can now produce formatted output suitable for input to the STAIRS/VS program products (5740-XR1 and 5746-XR4). It can then be indexed and retrieved with STAIRS inquiries. (Alternatively, this formatted output can be produced for proofing in a printed form.)
- ADDITIONAL LANGUAGE AND FUNCTIONAL SUPPORT FOR HYPHENATION AND SPELLING CHECKING: Dictionary and stem processing support

has been added for Dutch, French, German, Italian, Spanish, UK English, Canadian English, and Canadian French languages. In addition, users can now build their own dictionaries which can be concatenated together with the base dictionary in user defined order.

- ALGORITHMIC HYPHENATION: A user provided algorithmic hyphenation routine can be invoked if a word cannot be hyphenated using the base dictionary. An algorithmic hyphenation routine for American-English words is provided with the product.
- BACK-OF-THE-BOOK INDEX: Indexes can be automatically generated from index entries specified within the text at points of reference. Page numbers for these index entries are automatically generated.
- GENERALIZED MARKUP LANGUAGE (GML) ENHANCEMENTS: GML will be extended to accept multiple line markup and to make it easier to write application processing functions (APFs) when creating additional GML tags.
- LANGUAGE AND FORMATTER EXTENSIONS: A number of SCRIPT/VS formatting functions have been added or enhanced. These extensions provide functions similar to those in ATMS.
 - General overstriking of a text string can be done with a specified character or with itself.
 - Output lines in the body text can be numbered relative to the start of a page.
 - Running headings and footings can be suppressed.
 - Up to 99 tab positions can now be specified.
 - The indent left and right functions can be specified to take effect after a given vertical distance and to remain in effect for a given vertical distance.
 - Control of the space available for the revision code.
 - Widow control.
 - The ability to specify floated text that may appear at the top or bottom of the specified page or column.

- Binding space can be specified on a per page basis.
- A single input character can be translated to a string.
- A hexadecimal character attribute allows the user to generate specified hexadecimal characters for input to the formatter.
- The user can stop the formatter and keep it from typing output until the user signals with the attention key. (This is functionally similar to a magcard stop code capability.)

The ATMS conversion routine is enhanced to reflect the above new formatter controls and to accept ATMS documents not in FT00 format.

Also provided with SCRIPT/VS are functions to recognize Generalized Markup Language (GML) tags and associate them with the SCRIPT/VS formatter processing functions specified for that tag.

When the licensed program IBM Document Library Facility, Program Number 5748-XXE, is also installed, the SCRIPT/VS formatter can be operated in the batch environments of OS/VS1, OS/VS2 MVS, and DOS/VSE through an interface provided with the formatter.

Foreground Environment Feature Highlights

When this feature is installed, SCRIPT/VS will be able to run under control of ATMS-III in addition to running in the foreground environment of TSO or under CMS. The formatter can then format a document for direct viewing back on the terminal.

Document Compatibility and Conversion

Processing ATMS Documents with SCRIPT/VS

Document Composition Facility will include a routine for converting documents in the Advanced Text Management System-II (ATMS-II), Program Number 5740-XXV, or 5746-XXG or ATMS-III Release 1.0, Program Number 5740-XYL or 5746-XXU format for processing by SCRIPT/VS. The interface to this routine is in the Document Library Facility which must be installed with SCRIPT/VS in a background environment for the routine to operate. The routine will convert most ATMS control words and ATMS GML into SCRIPT/VS control words, macros, and GML.

Processing Release 1 Documents

The FILE option in the Document Composition Facility Release 2 SCRIPT command is now mutually exclusive with the PRINT and TERM keywords (where the DEV option should be used). The .UD control word will cause only blanks not to be underscored.

Specified Operating Environment

System Configuration

PROCESSORS: In the interactive environments, the Document Composition Facility will execute under control of CMS, ATMS-III, or TSO host systems and the processors on which they are designed to operate.

In the batch environments (when the Document Library Facility is installed), the Document Composition Facility will execute on all System/370 Models 125 and above, the 4331 and 4341 Processors, and 3031 and above Processors, as supported by DOS/VSE, OS/VS1, or OS/VS2 MVS.

TERMINALS: In the interactive environments, SCRIPT/VS will be able to format output for the IBM 2741, IBM 3270, and terminals functionally equivalent with these at the data stream level that are supported by the CMS, TSO, or ATMS-III via its CICS host system.

In the batch environments, SCRIPT/VS will not be able to be used with terminals directly, but terminals attached to the operating system can use SCRIPT/VS by remote job entry (RJE).

In addition, in the batch environment, using the job submission capability of the Distributed Office Support System/370 (program number 5740-XY9), a document containing Generalized Markup Language can be prepared and edited on the 3730 Distributed Office Communication System and transmitted to the host along with the job. A user-written program can place the 3730 document into a dataset for subsequent host-application processing. With additional user-written conversion programming, the document can be imported into the Document Library Facility and then processed by the Document Composition Facility.

PRINTERS: SCRIPT/VS output will be able to be printed on the IBM 3800 Printing Subsystem.

Output will also be able to be printed on the following:

- IBM 1403 Printer
- IBM 3211 Printer
- IBM 3203 Printer
- Any printer functionally equivalent to the above printers at the data stream level.

STORAGE DEVICES: The Document Composition Facility storage device support will be provided by the environment in which it is operating.

Programming Systems

The Document Composition Facility with the Foreground Environment Feature will be supported to run on:

- VM/370 CMS (Conversational Monitor System), Release 6, VM/370 BSEP Release 2, and SEP Release 2.
- OS/VS2 TSO (Time Sharing Option) with OS/VS2 MVS, Release 3.8
- ATMS-III Release 1.0 on CICS/VS Version 1 Release 4.

The Document Composition Facility will be supported in a batch environment on:

- OS/VS1, Release 7
- OS/VS2 MVS, Release 3.8
- DOS/VSE.

This licensed program will be released to work with the releases listed above and any subsequent releases and modification levels unless otherwise stated.

For SCRIPT/VS to operate in a batch environment, installation of the IBM Document Library Facility licensed program, Program Number 5748-XXE, is required. In this case, SCRIPT/VS will be executed as a batch job or called from a program as a subroutine via a CALL to the Document Library Facility. The Document Library Facility will also be required to use the Advanced Text Management System (ATMS) conversion routine.

Reference Material

Document Composition Facility and Document Library Facility: General Information, GH20-9158.

Testing Period

The pre-installation testing period is one (1) month.

License

A separate license is required for each designated machine on which the licensed program materials will be used except as otherwise provided by IBM.

Program Services

Program Services are Central Service with direct customer service via the IBM support center and will be available for this product until discontinued by IBM upon six months written notice. Field Engineering Programming assistance will be available upon request at the applicable hourly rate. Release 1 will be current for 90 days after availability of Release 2.

No program service is available for the starter set of GML tags, profiles, and their associated application processing functions, the new 3800 fonts, and the ATMS conversion macros.

Warranty

Document Composition Facility is warranted to conform to its Licensed Program Specifications when shipped to the customer if properly used in the Specified Operating Environment. The starter set of GML profiles, application processing functions and their associated functions, the new 3800 fonts, and the ATMS conversion macros are distributed on an "As Is" basis.

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

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

Estimated Availability

Release 1 of this product is now available.

The estimated availability of Release 2 from PID (Program Information Department) is April, 1980.

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